

OCTOBER & NOVEMBER 2007

EMISSIONS MONITORING

REPORT

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Report Number P-RED07-129/EB/R1/Rev0

7th December 2007

PROJECT TEAM

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Report prepared by:

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Signature:



Date:

7th December 2007

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7th December 2007

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7th December 2007

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EXECUTIVE SUMMARY (Page 1 of 1)

The following document details the emissions to air monitoring survey undertaken by Elena Berek, Vicki Gavin and Tony Berek of Redwing Environmental Ltd at Terex Compact Equipment on the 29th to 31st October and the 2nd November 2007.

All results pertain to the dates monitored only.

A summary of results is shown below:-

Emission point reference Stack N ^o	Total Particulate Matter at reference conditions (mg/m ³)	Highest 30 minute mean VOC at reference conditions (mg/m ³)	Isocyanate Concentration at reference conditions (mg/m ³)	Velocity corrected to reference conditions (m/s)	Volume flow corrected to reference conditions (m ³ /hr)
Primer Spray Booth 1	2.0 to 2.7	10.5 (9.1)	--	8.9	81,622
Primer Spray Booth 2	1.5 to 1.7	22.1 (18.6)	--	9.6	87,947
Primer Flash-off	1.5 to 2.0	6.6 (6.1)	--	13.4	24,292
Topcoat Spray Booth 1	0.3 to 1.3	10.6 (10.0)	<0.002	7.8	71,181
Topcoat Spray Booth 2	1.2 to 2.0	21.8 (20.1)	0.011	8.6	78,858
Topcoat Flash-off	0.9 to 1.4	26.8 (26.4)	0.021	12.3	28,284
Topcoat Curing Oven	1.1 to 5.1	10.2 (9.9)	0.003	9.1	7,792
Paint Kitchen	--	7.4 (5.5)	--	6.8	4,778
Preparation Booth	0.2 to 1.3	--	--	9.8	17,679
Spray Bake Booth 1	1.7 to 1.8	40.4 (36.5)	<0.002	14.8	26,739
Spray Bake Booth 2	<0.5 to 0.9	30.3 (24.2)	0.017	18.3	33,101

1.0 INTRODUCTION

- 1.1 The exhausts listed below were monitored with respect to quotation Q-RED07-129/EB/v0 for the compliance check monitoring of emissions to air. The substances requested for monitoring at each emission point are listed below:

Monitoring Programme

Stack reference/Proposed method	Total Particulate Matter ISO 9096 or BS EN 13284	Volatile Organic Compounds BS EN 13526	MDHS 25/3
Main Paint Facility			
Primer spray booth - 1	✓	✓	x
Primer spray booth – 2	✓	✓	x
Primer Flash off	✓	✓	x
Topcoat Spray booth -1	✓	✓	✓
Topcoat spray booth – 2	✓	✓	✓
Topcoat Flash off	✓	✓	✓
Topcoat Curing Oven	✓	✓	✓
Paint Kitchen	x	✓	x
Off line Paint Facility			
Preparation booth	✓	x	x
Spraybake booth – 1	✓	✓	✓
Spraybake booth – 2	✓	✓	✓

- 1.2 Terex Compact Equipment operates a metal and plastic coating process at their site in Coventry, the process is governed by the Secretary of States Process Guidance Note PG6/23(04) – Coating of Metal and Plastic.

1.3 The emission limits are listed below:

Process Guidance Note PG6/23 (04): Coating of Metal and Plastic

EMISSION LIMITS

ANALYTE	TOTAL PARTICULATE	TOTAL VOC	TOTAL ISOCYANATES
Emission Limit	50 mg/m ³	150 mg/m ³	0.1mg/m ³

1.4 The velocity and temperature profile were within the required parameters of 9:1 (pascals) or 3:1 metres/second and ± 1% for temperature profile. This information indicates that the sample ports are in ideal positions to collect the samples under representative conditions.

1.5 Monitoring Results

Emission Point Reference	Substance to be Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Reference Conditions 273 K, 101.3 kPa	Date of Sampling	Start and End Times	Monitoring Method Reference	Accreditation for use of Method	Operating Status	
Primer Spray Booth 1	Total Particulate Matter	50	2.0 to 2.7	mg/m ³	273K, 101.3kPa	31/10/07	0822 – 0858	BS EN 13284-1	UKAS accreditation under application	Normal	
	Volatile Organic Compounds	150	10.5	mg/m ³			0902 - 0938				BS EN 13526
Primer Spray Booth 2	Total Particulate Matter	50	1.5 to 1.7	mg/m ³	273K, 101.3kPa	30/10/07	1125-1201	BS EN 13284-1	UKAS accreditation under application	Normal	
	Volatile Organic Compounds	150	22.1	mg/m ³			1230-1306				BS EN 13526
Primer Flash-off	Total Particulate Matter	50	1.5 to 2.0	mg/m ³	273K, 101.3kPa	30/10/07	1000 – 1032	BS EN 13284-1	UKAS accreditation under application	Normal	
	Volatile Organic Compounds	150	6.6	mg/m ³			1040 - 1112				BS EN 13526
Top Coat Spray Booth 1	Total Particulate Matter	50	0.3 to 1.3	mg/m ³	273K, 101.3kPa	31/10/07	0947 – 1023	BS EN 13284-1	UKAS accreditation under application	Normal	
	Volatile Organic Compounds	150	10.6	mg/m ³			1027 - 1103				BS EN 13526
	Isocyanates	0.1	<0.002	mg/m ³			0952 - 1052				MDHS 25/3
						30/10/07	0845 - 1045				

Emission Point Reference	Substance to be Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Reference Conditions 273 K, 101.3 kPa	Date of Sampling	Start and End Times	Monitoring Method Reference	Accreditation for use of Method	Operating Status
Top Coat Spray Booth 2	Total Particulate Matter	50	1.2 to 2.0	mg/m ³	273K, 101.3kPa	31/10/07	1112-1148 1157-1233	BS EN 13284-1	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	21.8	mg/m ³			1109 - 1209	BS EN 13526		
	Isocyanates	0.1	0.011	mg/m ³			0845 - 1045	MDHS 25/3		
Topcoat Flash-off	Total Particulate Matter	50	0.9 to 1.4	mg/m ³	273K, 101.3kPa	29/10/07	1200-1236 1242-1318	BS EN 13284-1	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	26.8	mg/m ³			1206-1306	BS EN 13526		
	Isocyanates	0.1	0.021	mg/m ³			0845-1045	MDHS 25/3		
Topcoat Curing Oven	Total Particulate Matter	50	1.1 to 5.1	mg/m ³	273K, 101.3kPa	30/10/07	0835-0907 0917-0949	BS EN 13284-1	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	10.2	mg/m ³			1327-1427	BS EN 13526		
	Isocyanates	0.1	0.003	mg/m ³			0846-1046	MDHS 25/3		
Spray Bake 1	Total Particulate Matter	50	1.7 to 1.8	mg/m ³	273K, 101.3kPa	02/11/07	1005-1037 1039-1111	BS EN 13284-1	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	40.4	mg/m ³			1010 - 1110	BS EN 13526		
	Isocyanates	0.1	<0.002	mg/m ³			1105 - 1305	MDHS 25/3		

Emission Point Reference	Substance to be Monitored	Emission Limit Value	Periodic Monitoring Result	Units	Reference Conditions 273 K, 101.3 kPa	Date of Sampling	Start and End Times	Monitoring Method Reference	Accreditation for use of Method	Operating Status
Spray Bake 2	Total Particulate Matter	50	<0.5 to 0.9	mg/m ³	273K, 101.3kPa	02/11/07	0855-0927 0930-1002	BS EN 13284-1	UKAS accreditation under application	Normal
	Volatile Organic Compounds	150	30.3	mg/m ³			0855 - 0955	BS EN 13526		
	Isocyanates	0.1	0.017	mg/m ³		30/10/07	1105 - 1305	MDHS 25/3		
Paint Kitchen	Volatile Organic Compounds	150	7.4	mg/m ³	273K, 101.3kPa	30/10/07	0843 - 0943	BS EN 13526	UKAS accreditation under application	Normal
Preparation Booth	Total Particulate Matter	50	0.2 to 1.3	mg/m ³	273K, 101.3kPa	02/11/07	1115 – 1147 1152 - 1224	BS EN 13284-1	UKAS accreditation under application	Normal

* Redwing Environmental Ltd are in the process of applying for UKAS accreditation

2 Supporting Information (Held by Redwing Environmental Ltd)

2.1 General Information

2.1.1 Redwing Environmental Ltd staff details

Elena Berek – MCerts Level 2 – TE1, TE2, TE3, TE4
Registration number MM 02 029

Vicki Gavin – MCerts Level 1 TE1
Registration number MM 02 018

Tony Berek – MCerts Level 1
Registration number MM 06 702

2.2 Redwing Environmental Ltd method details

2.2.1 Volatile organic compounds (BS EN 13526: 2001)

2.2.2 Monitoring to determine VOC emission concentrations was in accordance with BS EN 13526: 2001.

2.2.3 Volatile organic compound concentrations were measured using a Signal portable heated VOC analyser. The analyser works by burning the gas sample in a hydrogen flame. This ionises any organic compounds present and the current produced across an electric field is proportional to the number of carbon atoms.

2.2.4 The analyser and heated line will be zeroed and calibrated with a test gas (80 ppm and or 800ppm propane) prior to each sampling run. VOC sampling will be undertaken over a period of at least 30 minutes to cover any process variation.

2.2.5 All data was logged onto a Grant Squirrel data logger set at 20 second logging.

2.2.6 A heated line from the sample point to analyser was used to ensure that condensation did not occur leading to the loss of sample concentration. Volatile organic compounds.

2.3 Stack Velocity, Pressure and Temperature Measurements

2.3.1 The stack velocity, pressure and temperature were measured by full pitot traverses of the duct using the points provided. Measurements were taken at ten equally spaced points along each proposed sampling line, excluding the 5% of the effective flue diameter from the wall.

2.4 Leak tests for extractive techniques

2.4.1 All extractive-sampling techniques were tested for leaks before sampling proceeded. Any leaks present were eliminated prior to sampling and will be reported.

2.4.2 Leak checks are carried out during the calibrating procedure, as the concentration of the calibration gas is known it is readily identified if air is entering the sample line and diluting the gas.

2.5 Particulate matter BS EN 13284-1: 2002

- 2.5.1 Total particulate matter was sampled using a Zambelli isokinetic sampling system in accordance with BS EN 13284-1: 2002 – Determination of Low Range Mass Concentration of dust (< 50mg/m³).
- 2.5.2 The Zambelli sampling system monitors temperature, static pressure and velocities within the duct using an S-type pitot tube and K-type thermocouple. The sampling rate was continuously monitored and adjusted relative to the duct velocity to ensure isokinetic-sampling conditions were maintained throughout the monitoring period.
- 2.5.3 Exhaust gases were drawn under isokinetic conditions from the exhaust points using the Zambelli sampling probe, particulate matter was then collected on a pre-weighed glass fibre filter (or most suitable filter for process) contained within the filter cassette holder, and the total particulate matter determined gravimetrically.
- 2.5.4 It is also necessary to wash the probe and nozzle out with water and then acetone between sampling and the weight of the probe washing added to that collected on the sample filter. Analysis of an acetone/water blank will be carried out and the result corrected accordingly.
- 2.5.5 The sample positions were calculated with respect to BS EN 13284-1: 2002 – Stationary source emissions – Determination of Low Range Mass Concentration of dust.
- 2.5.6 Sampling may be carried out internally or externally, the method used will be reported and provided there are no deviations from the method the uncertainty for the monitoring procedure is reported to be within the requirements specified by the Hazardous Waste Directive (HWD) as stated in the Environment Agency Technical Document M2

Uncertainty: ± 30%

- 2.5.7 ISO 9096: 2003 and BS EN 13284-1: 2002 are very similar methods but BS EN 13284-1: 2002 recommends the use of an 8mm nozzle and nozzles less than 6mm should not be used. For this survey a 6mm nozzle was used otherwise the flow rate would have exceeded 34 litres/minute.

2.6 Isocyanates (MDHS 25/3)

- 2.6.1 There are several Isocyanates; these include TDI, MDI, HDI and IPDI. The isocyanate to be monitored is HDI (1,6 – hexamethylene diisocyanate). All Isocyanates follow the same procedure for sampling and analysis.
- 2.6.2 Isocyanates can be sampled non-isokinetically following MDHS 25 or isokinetically following the draft US EPA Method 207-1.
- 2.6.3 The method used was the non-isokinetic method. A sample probe was placed inside the stack; the sample probe was then attached to two midjet impingers. The first impinger contained 10mls of 1,2 methoxy-phenyl piperazine and the second impinger was empty.

2.6.4 The impingers were then attached to a calibrated sample pump; the pump was left to run for approximately 2 hours. The pump was then recalibrated and the total volume of the sample gas calculated. In the event of the solution evaporating, the sample volume is made up to 10mls using dry toluene.

2.6.5 The samples are stored in brown glass bottles and submitted for analysis. The samples will be 'blown down' to dryness using air and made upto 1ml using the most suitable matrix (usually acetonitrile). The sample will then be ready for analysis by HPLC (High Pressure Liquid Chromatography).

3.0 Quality Assurance

3.1 Redwing Environmental Ltd will always endeavour to follow the methods specified in the Environment Agency Technical Guidance M2. The methods followed will be listed as our Technical Procedures and will be put forward for UKAS accreditation. Redwing Environmental Ltd are members of the Source Testing Association (STA) and therefore operate under the STA's code of practice.

3.2 Redwing Environmental Ltd is accredited to ISO 9001.

3.3 All references made to MCerts are based on the certification held by the site personnel only.

4.0 Disclaimer

4.1 Redwing Environmental Ltd confirm that in preparing this report all reasonable skill and care has been exercised.

4.1.1 Unless specifically assigned or transferred within the terms of the agreement, Redwing Environmental Ltd asserts and retains all copyright, and other Intellectual Property Rights, in and over the report and its contents.

APPENDIX A

Particulate & Velocity Results

Client	Terex Compact Equipment						
Site Address	Prologis Park, Coventry						
Job Number	P-RED07-129/EB/R1/Rev0						
Date	31/10/2007	Port Depth (cm)					
Operator(s)	Vicki Gavin & Tony Berek						
				Isokinetic Sampling Method	ISO 9096	BS EN 13284	<input checked="" type="checkbox"/>
Stack Reference	Primer Booth 1 Exhaust	Isokinetic Sample Points (cms)		Isokinetic Flow (l/min)			
		1	7.92	19.44	20.01	Axis 1	Axis 2
Number of Stacks	1	2	26.28	20.57	22.16		
Configuration (Round / Rectangular)	Round	3	53.28	0.00	0.00		
Dimensions (mtrs)	1.80	4	126.72	0.00	0.00		
Outlet Diameter (if applicable) (mtrs/sec)		5	153.72	0.00	0.00		
Number of Sample Ports	2	6	172.08	0.00	0.00		
Number of Samples per Axis / Port	6	7	N/A	N/A	N/A		
Nozzle Diameter (mm)	7.0	8	N/A	N/A	N/A		
Nozzle Area (m ²)	0.00003847	Average Isokinetic Flow Rate (ltrs/min)		Axis 1	Axis 2		
Stack Area (m ²)	2.545			20.01	21.11		
Pitot Coefficient	0.93	Pitot Calibration Date		22nd November 2007		Atmos. Pressure (mbars)	
Position	Distance	Axis 1	Temperature	Axis 2	Temperature	1030	
No.	(cms)	(pa)	(C)	(pa)	(C)	Static Pressure (pa)	
1	7.92	50	15.0	53	15.0	-21.00	
2	26.28	56	15.0	65	15.0	1 Axis	2 Axis
3	53.28					Average Velocity Flow (Nm/s)	
4	126.72					8.91	
5	153.72					Average Volume Flow (Nm ³ /s)	
6	172.08					22.67	
7	N/A					Volume (Nm ³ /s)	
8	N/A					22.06	23.28
						Velocity of flow (Nm/s)	
						8.67	9.15
Averages		53	15.0	59	15.0	Reduced Exit Velocity (m/s)	
						N/A	N/A
Mean Flue Gas Temp (in K) $T_p = ((\text{Mean } T_1 + \text{Mean } T_2) \cdot 2) + 273$ =						288.00	
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273)$ =						0.60	to 29.40
Highest Velocity Reading (m/s) =						9.6	
Lowest Velocity Reading (m/s) =						8.4	
Ratio Highest:Lowest (Max permitted = 3:1)						1.15 : 1	
On site Checklist				Instrument	Serial No:		
Manometer Leak Check	ok			Manometer	RED 0095		
Range of Gas Temps	ok			Temp Indicator	RED 0096		
Leak Check (l/min)	<0.2			Thermocouple	RED 0221		
Leak Check 2% Vol (l/min)	0.41			Pitot Tube	RED 0221		
Swirl Test (<15°)	ok			Sample Pump	Zambelli Blue (RED 0100)		

Stack Reference ID	Primer Booth 1 Exhaust					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	Q47/031007/09			Q47/031007/10		
Date	31-Oct-07			31-Oct-07		
Sample Period	8:22	to	8:58	9:02	to	9:38
Velocity (Nm/s)	8.91					
Volume (Nm ³ /hr)	81622					
Average Stack Temp (°C)	15.50					
Permitted Temp Range (°C)	0.60		to			29.40
Lowest Velocity Reading (m/s)	8.37					
Highest Velocity Reading (m/s)	9.60					
Ratio (less than 3:1)	1.15		:			1
Oxygen %	20.9					
Carbon Dioxide %	0.00					
Moisture (%)	0.62					
Litres sampled	789			755		
Corrected volume sampled (m ³)	0.733			0.703		
Blank Filter Run (mg/m ³)	0.013					
Blank Filter Run (mg/m ³)	0.259					
Particulate Concentration on Filter (mg/m ³)	0.40			0.43		
Particulate Concentration in Wash (mg/m ³)	2.32			1.57		
Total Particulate Concentration (mg/m ³)	2.71			1.99		
Total Particulate Concentration corrected for Oxygen, dry gas (mg/m ³)	N/A			N/A		
Total Particulate Mass Emission (kg/hour)	0.222			0.163		

Client	Terex Compact Equipment							
Site Address	Prologis Park, Coventry							
Job Number	P-RED07-129/EB/R1/Rev0							
Date	30/10/2007			Port Depth (cm)				
Operator(s)	Elena Berek & Tony Berek							
				Isokinetic Sampling Method		ISO 9096	BS EN 13284 <input checked="" type="checkbox"/>	
Stack Reference	Primer Booth 2 Exhaust			Isokinetic Sample Points (cms)		Isokinetic Flow (l/min)		
				1	7.92	Axis 1	Axis 2	
Number of Stacks	1			2	26.28	21.73	22.08	
Configuration (Round / Rectangular)	Round			3	53.28	21.20	23.58	
Dimensions (mtrs)	1.80			4	126.72	0.00	0.00	
Outlet Diameter (if applicable) (mtrs/sec)				5	153.72	0.00	0.00	
Number of Sample Ports	2			6	172.08	0.00	0.00	
Number of Samples per Axis / Port	6			7	N/A	N/A	N/A	
Nozzle Diameter (mm)	7.0			8	N/A	N/A	N/A	
Nozzle Area (m ²)	0.00003847			Average Isokinetic Flow Rate (ltrs/min)		Axis 1	Axis 2	
Stack Area (m ²)	2.545					21.47	22.84	
Pitot Coefficient	0.93		Pitot Calibration Date		22nd November 2007		Atmos. Pressure (mbars)	
Position	Distance	Axis 1	Temperature	Axis 2	Temperature	1024		
No.	(cms)	(pa)	(C)	(pa)	(C)	Static Pressure (pa)		
1	7.92	62	15.0	64	15.0	76.00		
2	26.28	59	15.0	73	15.0	1 Axis	2 Axis	
3	53.28					Average Velocity Flow (Nm/s)		
4	126.72					9.60		
5	153.72					Average Volume Flow (Nm ³ /s)		
6	172.08					24.43		
7	N/A					Volume (Nm ³ /s)		
8	N/A					23.67	25.19	
							Velocity of flow (Nm/s)	
							9.30	9.90
Averages		61	15.0	69	15.0	Reduced Exit Velocity (m/s)		
							N/A	N/A
Mean Flue Gas Temp (in K) $T_p = ((\text{Mean } T_1 + \text{Mean } T_2) \cdot 2) + 273) =$							288.00	
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273) =$							0.60	to 29.40
Highest Velocity Reading (m/s) =							10.2	
Lowest Velocity Reading (m/s) =							9.1	
Ratio Highest:Lowest (Max permitted = 3:1)							1.12 : 1	
On site Checklist				Instrument	Serial No:			
Manometer Leak Check	ok			Manometer	RED 0095			
Range of Gas Temps	ok			Temp Indicator	RED 0096			
Leak Check (l/min)	<0.2			Thermocouple	RED 0221			
Leak Check 2% Vol (l/min)	0.44			Pitot Tube	RED 0221			
Swirl Test (<15°)	ok			Sample Pump	Zambelli Blue (RED 0100)			

Stack Reference ID		Primer Booth 2 Exhaust					
	Terex Compact Equipment						
	RUN 1			RUN 2			
	Filter Reference No	Q47/031007/07			Q47/031007/08		
Date	30-Oct-07			30-Oct-07			
Sample Period	11:25	to	12:01	12:30	to	13:06	
Velocity (Nm/s)	9.60						
Volume (Nm ³ /hr)	87947						
Average Stack Temp (°C)	15.00						
Permitted Temp Range (°C)	0.60		to			29.40	
Lowest Velocity Reading (m/s)	9.09						
Highest Velocity Reading (m/s)	10.22						
Ratio (less than 3:1)	1.12		:			1	
Oxygen %	20.9						
Carbon Dioxide %	0.00						
Moisture (%)	1.02						
Litres sampled	734			711			
Corrected volume sampled (m ³)	0.682			0.660			
Blank Filter Run (mg/m ³)	0.014						
Blank Filter Run (mg/m ³)	0.277						
Particulate Concentration on Filter (mg/m ³)	0.66			0.36			
Particulate Concentration in Wash (mg/m ³)	0.88			1.36			
Total Particulate Concentration (mg/m ³)	1.54			1.73			
Total Particulate Concentration corrected for Oxygen, dry gas (mg/m ³)	N/A			N/A			
Total Particulate Mass Emission (kg/hour)	0.135			0.152			

Client	Terex Compact Equipment					
Site Address	Prologis Park, Coventry					
Job Number	P-RED07-129/EB/R1/Rev0					
Date	30/10/2007	Port Depth (cm)				
Operator(s)	Elena Berek & Tony Berek					
				Isokinetic Sampling Method	ISO 9096	BS EN 13284 <input checked="" type="checkbox"/>
Stack Reference	Primer Flash-off Exhaust	Isokinetic Sample Points (cms)		Isokinetic Flow (l/min)		
		1	11.68	Axis 1	Axis 2	
Number of Stacks	1	2	68.32	31.18	30.03	
Configuration (Round / Rectangular)	Round	3	N/A	N/A	N/A	
Dimensions (mtrs)	0.80	4	N/A	N/A	N/A	
Outlet Diameter (if applicable) (mtrs/sec)		5	N/A	N/A	N/A	
Number of Sample Ports	2	6	N/A	N/A	N/A	
Number of Samples per Axis / Port	2	7	N/A	N/A	N/A	
Nozzle Diameter (mm)	7.0	8	N/A	N/A	N/A	
Nozzle Area (m ²)	0.00003847	Average Isokinetic Flow Rate (ltrs/min)		Axis 1	Axis 2	
Stack Area (m ²)	0.503			31.87	30.10	
Pitot Coefficient	0.93	Pitot Calibration Date		22nd November 2007		
Position	Distance	Axis 1	Temperature	Axis 2	Temperature	
No.	(cms)	(pa)	(C)	(pa)	(C)	
1	11.68	135	25.0	116	25.0	
2	68.32	124	25.0	115	25.0	
3	N/A					
4	N/A					
5	N/A					
6	N/A					
7	N/A					
8	N/A					
				Atmos. Pressure (mbars)		
				1024		
				Static Pressure (pa)		
				80.00		
				1 Axis 2 Axis		
				Average Velocity Flow (Nm/s)		
				13.42		
				Average Volume Flow (Nm ³ /s)		
				6.75		
				Volume (Nm ³ /s)		
				6.94 6.55		
				Velocity of flow (Nm/s)		
				13.81 13.04		
Averages				Reduced Exit Velocity (m/s)		
				N/A N/A		
Mean Flue Gas Temp (in K) $T_p = ((\text{Mean } T_1 + \text{Mean } T_2) \cdot 2) + 273) =$				298.00		
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273) =$				10.10 to 39.90		
Highest Velocity Reading (m/s) =				14.1		
Lowest Velocity Reading (m/s) =				12.9		
Ratio Highest/Lowest (Max permitted = 3:1)				1.09 : 1		
On site Checklist				Instrument	Serial No:	
Manometer Leak Check	ok			Manometer	RED 0095	
Range of Gas Temps	ok			Temp Indicator	RED 0096	
Leak Check (l/min)	<0.2			Thermocouple	RED 0221	
Leak Check 2% Vol (l/min)	0.62			Pitot Tube	RED 0221	
Swirl Test (<15°)	ok			Sample Pump	Zambelli Blue (RED 0100)	

Stack Reference ID		Primer Flash-off Exhaust					
	Terex Compact Equipment						
	RUN 1			RUN 2			
	Filter Reference No	Q47/031007/05			Q47/031007/06		
Date	30-Oct-07			30-Oct-07			
Sample Period	10:00	to	10:32	10:40	to	11:12	
Velocity (Nm/s)	13.42						
Volume (Nm ³ /hr)	24292						
Average Stack Temp (°C)	25.00						
Permitted Temp Range (°C)	10.10		to			39.90	
Lowest Velocity Reading (m/s)	12.91						
Highest Velocity Reading (m/s)	14.10						
Ratio (less than 3:1)	1.09		:			1	
Oxygen %	20.9						
Carbon Dioxide %	0.00						
Moisture (%)	0.77						
Litres sampled	768			709			
Corrected volume sampled (m ³)	0.714			0.658			
Blank Filter Run (mg/m ³)	0.014						
Blank Filter Run (mg/m ³)	0.271						
Particulate Concentration on Filter (mg/m ³)	0.52			0.32			
Particulate Concentration in Wash (mg/m ³)	0.98			1.67			
Total Particulate Concentration (mg/m ³)	1.50			1.99			
Total Particulate Concentration corrected for Oxygen, dry gas (mg/m ³)	N/A			N/A			
Total Particulate Mass Emission (kg/hour)	0.036			0.048			

Client		Terex Compact Equipment					
Site Address		Prologis Park, Coventry					
Job Number		P-RED07-129/EB/R1/Rev0					
Date		31/10/2007		Port Depth (cm)			
Operator(s)		Vicki Gavin & Tony Berek					
				Isokinetic Sampling Method		ISO 9096	BS EN 13284 <input checked="" type="checkbox"/>
Stack Reference		Top Coat Booth 1 Exhaust		Isokinetic Sample Points (cms)		Isokinetic Flow (l/min)	
				Axis 1	Axis 2	Axis 1	Axis 2
Number of Stacks		1		1	7.92	16.23	16.23
Configuration (Round / Rectangular)		Round		2	26.28	15.76	18.20
Dimensions (mtrs)		1.80		3	53.28	17.35	17.57
Outlet Diameter (If applicable) (mtrs/sec)				4	126.72	16.46	18.61
Number of Sample Ports		2		5	153.72	18.61	19.59
Number of Samples per Axis / Port		6		6	172.08	17.35	22.46
Nozzle Diameter (mm)		7.0		7	N/A	N/A	N/A
Nozzle Area (m ²)		0.0003847		Average Isokinetic Flow Rate (ltrs/min)		Axis 1	Axis 2
Stack Area (m ²)		2.545				16.99	18.88
Pitot Coefficient		0.93		Pitot Calibration Date		22nd November 2007	
Position		Distance		Axis 1		Temperature	
No.		(cms)		(pa)		(C)	
1		7.92		35		14.8	
2		26.28		33		14.8	
3		53.28		40		14.8	
4		126.72		36		14.8	
5		153.72		46		14.8	
6		172.08		46		14.8	
7		N/A		51		14.8	
8		N/A		67		14.8	
						Atmos. Pressure (mbars)	
						1030	
						Static Pressure (pa)	
						7.00	
						1 Axis	
						2 Axis	
						Average Velocity Flow (Nm/s)	
						7.77	
						Average Volume Flow (Nm ³ /s)	
						19.77	
						Volume (Nm ³ /s)	
						18.73	
						20.81	
						Velocity of flow (Nm/s)	
						7.36	
						8.18	
Averages				38		14.8	
				47		14.8	
						Reduced Exit Velocity (m/s)	
						N/A	
						N/A	
Mean Flue Gas Temp (in K) $T_p = ((\text{Mean } T1 + \text{Mean } T2) \cdot 2) + 273$ =						287.80	
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273)$ =						0.41 to 29.19	
Highest Velocity Reading (m/s) =						9.7	
Lowest Velocity Reading (m/s) =						6.8	
Ratio Highest:Lowest (Max permitted = 3:1)						1.43 : 1	
On site Checklist				Instrument		Serial No:	
Manometer Leak Check		ok		Manometer		RED 0095	
Range of Gas Temps		ok		Temp Indicator		RED 0096	
Leak Check (l/min)		<0.2		Thermocouple		RED 0221	
Leak Check 2% Vol (l/min)		0.36		Pitot Tube		RED 0221	
Swirl Test (<15°)		ok		Sample Pump		Zambelli Blue (RED 0100)	

Stack Reference ID	Top Coat Booth 1 Exhaust					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	Q47I031007I11			Q47I031007I12		
Date	31-Oct-07			31-Oct-07		
Sample Period	9:47	to	10:23	10:27	to	11:03
Velocity (Nm/s)	7.77					
Volume (Nm ³ /hr)	71181					
Average Stack Temp (°C)	15.00					
Permitted Temp Range (°C)	0.41	to			to	29.19
Lowest Velocity Reading (m/s)	6.80					
Highest Velocity Reading (m/s)	9.73					
Ratio (less than 3:1)	1.43		:			1
Oxygen %	20.9					
Carbon Dioxide %	0.00					
Moisture (%)	0.47					
Litres sampled	623			684		
Corrected volume sampled (m ³)	0.581			0.637		
Blank Filter Run (mg/m ³)	0.015					
Blank Filter Run (mg/m ³)	0.306					
Particulate Concentration on Filter (mg/m ³)	0.28			0.38		
Particulate Concentration in Wash (mg/m ³)	<0.9			0.94		
Total Particulate Concentration (mg/m ³)	0.28			1.32		
Total Particulate Concentration corrected for Oxygen, dry gas (mg/m ³)	N/A			N/A		
Total Particulate Mass Emission (kg/hour)	0.020			0.094		

Client		Terex Compact Equipment					
Site Address		Prologis Park, Coventry					
Job Number		P-RED07-129/EB/R1/Rev0					
Date		31/10/2007		Port Depth (cm)			
Operator(s)		Vicki Gavin & Tony Berek					
				Isokinetic Sampling Method		ISO 9096	BS EN 13284 <input checked="" type="checkbox"/>
Stack Reference		Top Coat Booth 2 Exhaust		Isokinetic Sample Points (cms)		Isokinetic Flow (l/min)	
						Axis 1	Axis 2
				1	7.92	20.77	15.07
Number of Stacks		1		2	26.28	13.75	22.00
Configuration (Round / Rectangular)		Round		3	53.28	17.40	25.21
Dimensions (mtrs)		1.80		4	126.72	16.96	22.68
Outlet Diameter (if applicable) (mtrs/sec)				5	153.72	19.64	20.77
Number of Sample Ports		2		6	172.08	20.21	21.66
Number of Samples per Axis / Port		6		7	N/A	N/A	N/A
Nozzle Diameter (mm)		7.0		8	N/A	N/A	N/A
Nozzle Area (m ²)		0.0003847		Average Isokinetic Flow Rate (ltrs/min)		Axis 1	Axis 2
Stack Area (m ²)		2.545				18.28	21.45
Pitot Coefficient		0.93		Pitot Calibration Date		22nd November 2007	
Position		Distance		Axis 1		Temperature	
No.		(cms)		(pa)		(C)	
1		7.92		57		16.5	
2		26.28		25		16.5	
3		53.28		40		16.5	
4		126.72		38		16.5	
5		153.72		51		16.5	
6		172.08		54		16.5	
7		N/A					
8		N/A					
						Atmos. Pressure (mbars)	
						1030	
						Static Pressure (pa)	
						2.00	
						1 Axis	
						2 Axis	
						Average Velocity Flow (Nm/s)	
						8.61	
						Average Volume Flow (Nm ³ /s)	
						21.91	
						Volume (Nm ³ /s)	
						20.16	
						23.65	
						Velocity of flow (Nm/s)	
						7.92	
						9.30	
Averages				44		16.5	
						61	
						16.5	
						Reduced Exit Velocity (m/s)	
						N/A	
						N/A	
						289.50	
						2.02 to 30.98	
						10.9	
						5.9	
						1.84 : 1	
On site Checklist				Instrument		Serial No:	
Manometer Leak Check		ok		Manometer		RED 0095	
Range of Gas Temps		ok		Temp Indicator		RED 0096	
Leak Check (l/min)		<0.2		Thermocouple		RED 0221	
Leak Check 2% Vol (l/min)		0.40		Pitot Tube		RED 0221	
Swirl Test (<15°)		ok		Sample Pump		Zambelli Blue (RED 0100)	

Stack Reference ID		Top Coat Booth 2 Exhaust					
	Terex Compact Equipment						
	RUN 1			RUN 2			
Filter Reference No	Q47/031007/13			Q47/031007/14			
Date	31-Oct-07			31-Oct-07			
Sample Period	11:12	to	11:48	11:57	to	12:33	
Velocity (Nm/s)	8.61						
Volume (Nm ³ /hr)	78858						
Average Stack Temp (°C)	16.50						
Permitted Temp Range (°C)	2.02	to			to	30.98	
Lowest Velocity Reading (m/s)	5.93						
Highest Velocity Reading (m/s)	10.92						
Ratio (less than 3:1)	1.84		:			1	
Oxygen %	20.9						
Carbon Dioxide %	0.00						
Moisture (%)	0.42						
Litres sampled	694			790			
Corrected volume sampled (m ³)	0.649			0.738			
Blank Filter Run (mg/m ³)	0.013						
Blank Filter Run (mg/m ³)	0.270						
Particulate Concentration on Filter (mg/m ³)	0.25			0.28			
Particulate Concentration in Wash (mg/m ³)	0.92			1.76			
Total Particulate Concentration (mg/m ³)	1.17			2.05			
Total Particulate Concentration corrected for Oxygen, dry gas (mg/m ³)	N/A			N/A			
Total Particulate Mass Emission (kg/hour)	0.092			0.161			

Client	Terex Compact Equipment					
Site Address	Prologis Park, Coventry					
Job Number	P-RED07-129/EB/R1/Rev0					
Date	29/10/2007	Port Depth (cm)				
Operator(s)	Vicki Gavin & Tony Berek					
				Isokinetic Sampling Method	ISO 9096	BS EN 13284 <input checked="" type="checkbox"/>
Stack Reference	Top Coat Flash Off Exhaust	Isokinetic Sample Points (cms)		Isokinetic Flow (l/min)		
				Axis 1	Axis 2	
		1	13.14	28.25	27.96	
Number of Stacks	1	2	76.86	29.10	28.68	
Configuration (Round / Rectangular)	Round	3	N/A	N/A	N/A	
Dimensions (mtrs)	0.90	4	N/A	N/A	N/A	
Outlet Diameter (If applicable) (mtrs/sec)		5	N/A	N/A	N/A	
Number of Sample Ports	2	6	N/A	N/A	N/A	
Number of Samples per Axis / Port	2	7	N/A	N/A	N/A	
Nozzle Diameter (mm)	7.0	8	N/A	N/A	N/A	
Nozzle Area (m ²)	0.00003847	Average Isokinetic Flow Rate (ltrs/min)		Axis 1	Axis 2	
Stack Area (m ²)	0.636			28.68	28.32	
Pitot Coefficient	0.93	Pitot Calibration Date		22nd November 2007		
Position	Distance	Axis 1	Temperature	Axis 2	Temperature	
No.	(cms)	(pa)	(C)	(pa)	(C)	
1	13.14	98	39.0	96	39.0	
2	76.86	104	39.0	101	39.0	
3	N/A					
4	N/A					
5	N/A					
6	N/A					
7	N/A					
8	N/A					
				Atmos. Pressure (mbars)		
				1013		
				Static Pressure (pa)		
				-69.00		
				1 Axis	2 Axis	
				Average Velocity Flow (Nm/s)		
				12.35		
				Average Volume Flow (Nm ³ /s)		
				7.86		
				Volume (Nm ³ /s)		
				7.91	7.81	
				Velocity of flow (Nm/s)		
				12.43	12.27	
Averages		101	39.0	99	39.0	
				Reduced Exit Velocity (m/s)		
				N/A		
				312.00		
				23.40	54.60	
				12.6		
				12.1		
				1.04 : 1		
On site Checklist				Instrument	Serial No:	
Manometer Leak Check	ok			Manometer	RED 0095	
Range of Gas Temps	ok			Temp Indicator	RED 0096	
Leak Check (l/min)	<0.2			Thermocouple	RED 0221	
Leak Check 2% Vol (l/min)	0.57			Pitot Tube	RED 0221	
Swirl Test (<15°)	ok			Sample Pump	Zambelli Blue (RED 0100)	

Stack Reference ID	Top Coat Flash Off Exhaust					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	Q47/031007/01			Q47/031007/02		
Date	29-Oct-07			29-Oct-07		
Sample Period	12:00	to	12:36	12:42	to	13:18
Velocity (Nm/s)	12.35					
Volume (Nm ³ /hr)	28284					
Average Stack Temp (°C)	49.00					
Permitted Temp Range (°C)	23.40	to			to	54.60
Lowest Velocity Reading (m/s)	12.07					
Highest Velocity Reading (m/s)	12.61					
Ratio (less than 3:1)	1.04		:			1
Oxygen %	20.9					
Carbon Dioxide %	0.00					
Moisture (%)	0.37					
Litres sampled	1013			1066		
Corrected volume sampled (m ³)	0.961			1.012		
Blank Filter Run (mg/m ³)	0.010					
Blank Filter Run (mg/m ³)	0.192					
Particulate Concentration on Filter (mg/m ³)	0.36			0.37		
Particulate Concentration in Wash (mg/m ³)	1.04			0.49		
Total Particulate Concentration (mg/m ³)	1.40			0.86		
Total Particulate Concentration corrected for Oxygen, dry gas (mg/m ³)	N/A			N/A		
Total Particulate Mass Emission (kg/hour)	0.040			0.024		

Client	Terex Compact Equipment						
Site Address	Prologis Park, Coventry						
Job Number	P-RED07-129/EB/R1/Rev0						
Date	30/10/2007	Port Depth (cm)					
Operator(s)	Elena Berek & Tony Berek						
				Isokinetic Sampling Method	ISO 9096	BS EN 13284	<input checked="" type="checkbox"/>
Stack Reference	Top Coat Curing Oven Exhaust			Isokinetic Sample Points (cms)		Isokinetic Flow (l/min)	
				Axis 1	Axis 2	Axis 1	Axis 2
			1	8.03	22.04	20.43	
Number of Stacks	1			2	46.97	20.80	20.80
Configuration (Round / Rectangular)	Round			3	N/A	N/A	N/A
Dimensions (mtrs)	0.55			4	N/A	N/A	N/A
Outlet Diameter (If applicable) (mtrs/sec)				5	N/A	N/A	N/A
Number of Sample Ports	2			6	N/A	N/A	N/A
Number of Samples per Axis / Port	2			7	N/A	N/A	N/A
Nozzle Diameter (mm)	7.0			8	N/A	N/A	N/A
Nozzle Area (m ²)	0.00003847			Average Isokinetic Flow Rate (ltrs/min)		Axis 1	Axis 2
Stack Area (m ²)	0.238					21.43	20.62
Pitot Coefficient	0.93	Pitot Calibration Date		22nd November 2007		Atmos. Pressure (mbars)	
Position	Distance	Axis 1	Temperature	Axis 2	Temperature	1024	
No.	(cms)	(pa)	(C)	(pa)	(C)	Static Pressure (pa)	
1	8.03	64	18.0	55	18.0	23.00	
2	46.97	57	18.0	57	18.0	1 Axis	2 Axis
3	N/A					Average Velocity Flow (Nm/s)	
4	N/A					9.11	
5	N/A					Average Volume Flow (Nm ³ /s)	
6	N/A					2.16	
7	N/A					Volume (Nm ³ /s)	
8	N/A					2.21	2.12
						Velocity of flow (Nm/s)	
						9.29	8.93
Averages		61	18.0	56	18.0	Reduced Exit Velocity (m/s)	
						N/A	N/A
Mean Flue Gas Temp (in K) $T_p = ((\text{Mean } T_1 + \text{Mean } T_2) \times 2) + 273) =$						291.00	
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273) =$						3.45	to 32.55
Highest Velocity Reading (m/s) =						9.6	
Lowest Velocity Reading (m/s) =						8.8	
Ratio Highest:Lowest (Max permitted = 3:1)						1.08 : 1	
On site Checklist			Instrument	Serial No:			
Manometer Leak Check	ok		Manometer	RED 0095			
Range of Gas Temps	ok		Temp Indicator	RED 0096			
Leak Check (l/min)	<0.2		Thermocouple	RED 0221			
Leak Check 2% Vol (l/min)	0.42		Pitot Tube	RED 0221			
Swirl Test (<15°)	ok		Sample Pump	Zambelli Blue (RED 0100)			

Stack Reference ID		Top Coat Curing Oven Exhaust					
	Terex Compact Equipment						
	RUN 1			RUN 2			
Filter Reference No	Q47I031007I03			Q47I031007I04			
Date	30-Oct-07			30-Oct-07			
Sample Period	8:35	to	9:07	9:17	to	9:49	
Velocity (Nm/s)	9.11						
Volume (Nm ³ /hr)	7792						
Average Stack Temp (°C)	18.00						
Permitted Temp Range (°C)	3.45	to			to	32.55	
Lowest Velocity Reading (m/s)	8.82						
Highest Velocity Reading (m/s)	9.55						
Ratio (less than 3:1)	1.08		:			1	
Oxygen %	20.9						
Carbon Dioxide %	0.00						
Moisture (%)	0.34						
Litres sampled	746			702			
Corrected volume sampled (m ³)	0.694			0.652			
Blank Filter Run (mg/m ³)	0.014						
Blank Filter Run (mg/m ³)	0.276						
Particulate Concentration on Filter (mg/m ³)	0.37			0.34			
Particulate Concentration in Wash (mg/m ³)	0.72			4.76			
Total Particulate Concentration (mg/m ³)	1.10			5.10			
Total Particulate Concentration corrected for Oxygen, dry gas (mg/m ³)	N/A			N/A			
Total Particulate Mass Emission (kg/hour)	0.009			0.040			

Client	Terex Compact Equipment					
Site Address	Prologis Park, Coventry					
Job Number	P-RED07-129/EB/R1/Rev0					
Date	02/11/2007	Port Depth (cm)				
Operator(s)	Vicki Gavin & Tony Berek					
				Isokinetic Sampling Method	ISO 9096	BS EN 13284 <input checked="" type="checkbox"/>
Stack Reference	Preparation Booth	Isokinetic Sample Points (cms)		Isokinetic Flow (l/min)		
		Axis 1	Axis 2	Axis 1	Axis 2	
		1	11.68	17.05	17.17	
Number of Stacks	1	2	68.32	15.94	16.06	
Configuration (Round / Rectangular)	Round	3	N/A	N/A	N/A	
Dimensions (mtrs)	0.80	4	N/A	N/A	N/A	
Outlet Diameter (if applicable) (mtrs/sec)		5	N/A	N/A	N/A	
Number of Sample Ports	2	6	N/A	N/A	N/A	
Number of Samples per Axis / Port	2	7	N/A	N/A	N/A	
Nozzle Diameter (mm)	6.0	8	N/A	N/A	N/A	
Nozzle Area (m ²)	0.00002626	Average Isokinetic Flow Rate (ltrs/min)		Axis 1	Axis 2	
Stack Area (m ²)	0.503			16.50	16.63	
Pitot Coefficient	0.93	Pitot Calibration Date		22nd November 2007		
Position	Distance	Axis 1	Temperature	Axis 2	Temperature	
No.	(cms)	(pa)	(C)	(pa)	(C)	
1	11.68	71	17.0	72	17.0	
2	68.32	62	17.0	63	17.0	
3	N/A					
4	N/A					
5	N/A					
6	N/A					
7	N/A					
8	N/A					
				Atmos. Pressure (mbars)		
				1024		
				Static Pressure (pa)		
				-3.00		
				1 Axis		
				2 Axis		
				Average Velocity Flow (Nm/s)		
				9.77		
				Average Volume Flow (Nm ³ /s)		
				4.91		
				Volume (Nm ³ /s)		
				4.89		
				4.93		
				Velocity of flow (Nm/s)		
				9.73		
				9.81		
				Reduced Exit Velocity (m/s)		
				N/A		
				N/A		
Mean Flue Gas Temp (In K) $T_p = ((\text{Mean } T_1 + \text{Mean } T_2) / 2) + 273) =$				290.00		
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273) =$				2.50 to 31.50		
Highest Velocity Reading (m/s) =				10.1		
Lowest Velocity Reading (m/s) =				9.4		
Ratio Highest/Lowest (Max permitted = 3:1)				1.08 : 1		
On site Checklist				Instrument	Serial No:	
Manometer Leak Check	ok			Manometer	RED 0095	
Range of Gas Temps	ok			Temp Indicator	RED 0096	
Leak Check (l/min)	<0.2			Thermocouple	RED 0221	
Leak Check 2% Vol (l/min)	0.33			Pitot Tube	RED 0221	
Swirl Test (<15°)	ok			Sample Pump	Zambelli Blue (RED 0100)	

Stack Reference ID	Preparation Booth					
	Terex Compact Equipment					
	RUN 1			RUN 2		
Filter Reference No	Q47I031007I19			Q47I031007I20		
Date	02-Nov-07			02-Nov-07		
Sample Period	11:15	to	11:47	11:52	to	12:24
Velocity (Nm/s)	9.77					
Volume (Nm ³ /hr)	17679					
Average Stack Temp (°C)	17.00					
Permitted Temp Range (°C)	2.50	to			to	31.50
Lowest Velocity Reading (m/s)	9.35					
Highest Velocity Reading (m/s)	10.13					
Ratio (less than 3:1)	1.08		:			1
Oxygen %	20.9					
Carbon Dioxide %	0.00					
Moisture (%)	0.49					
Litres sampled	512			573		
Corrected volume sampled (m ³)	0.482			0.539		
Blank Filter Run (mg/m ³)	0.018					
Blank Filter Run (mg/m ³)	0.369					
Particulate Concentration on Filter (mg/m ³)	0.02			0.02		
Particulate Concentration in Wash (mg/m ³)	0.21			1.30		
Total Particulate Concentration (mg/m ³)	0.23			1.32		
Total Particulate Concentration corrected for Oxygen, dry gas (mg/m ³)	N/A			N/A		
Total Particulate Mass Emission (kg/hour)	0.004			0.023		

Client	Terex Compact Equipment						
Site Address	Prologis Park, Coventry						
Job Number	P-RED07-129/EB/R1/Rev0						
Date	02/11/2007	Port Depth (cm)					
Operator(s)	Vicki Gavin & Tony Berek						
				Isokinetic Sampling Method	ISO 9096	BS EN 13284	<input checked="" type="checkbox"/>
Stack Reference	Spray Bake 1 Exhaust		Isokinetic Sample Points (cms)		Isokinetic Flow (l/min)		
			1	11.68	Axis 1	Axis 2	
Number of Stacks	1		2	68.32	33.91	32.99	
Configuration (Round / Rectangular)	Round		3	N/A	N/A	N/A	
Dimensions (mtrs)	0.80		4	N/A	N/A	N/A	
Outlet Diameter (if applicable) (mtrs/sec)			5	N/A	N/A	N/A	
Number of Sample Ports	2		6	N/A	N/A	N/A	
Number of Samples per Axis / Port	2		7	N/A	N/A	N/A	
Nozzle Diameter (mm)	7.0		8	N/A	N/A	N/A	
Nozzle Area (m ²)	0.0003847		Average Isokinetic Flow Rate (ltrs/min)		Axis 1	Axis 2	
Stack Area (m ²)	0.503				34.30	33.91	
Pitot Coefficient	0.93	Pitot Calibration Date		22nd November 2007		Atmos. Pressure (mbars)	
Position	Distance	Axis 1	Temperature	Axis 2	Temperature	1024	
No.	(cms)	(pa)	(C)	(pa)	(C)	Static Pressure (pa)	
1	11.68	157	20.0	158	20.0	-141.00	
2	68.32	150	20.0	142	20.0	1 Axis	2 Axis
3	N/A					Average Velocity Flow (Nm/s)	
4	N/A					14.78	
5	N/A					Average Volume Flow (Nm ³ /s)	
6	N/A					7.43	
7	N/A					Volume (Nm ³ /s)	
8	N/A					7.47	7.38
						Velocity of flow (Nm/s)	
						14.86	14.69
Averages		154	20.0	150	20.0	Reduced Exit Velocity (m/s)	
						N/A	N/A
Mean Flue Gas Temp (in K) $T_p = ((\text{Mean } T_1 + \text{Mean } T_2) / 2) + 273) =$						293.00	
Permitted Range of gas temperature readings (C) = $(0.95T_p - 273)$ to $(1.05T_p - 273) =$				5.35		to 34.65	
Highest Velocity Reading (m/s) =						15.1	
Lowest Velocity Reading (m/s) =						14.2	
Ratio Highest:Lowest (Max permitted = 3:1)						1.06 : 1	
On site Checklist				Instrument	Serial No:		
Manometer Leak Check	ok			Manometer	RED 0095		
Range of Gas Temps	ok			Temp Indicator	RED 0096		
Leak Check (l/min)	<0.2			Thermocouple	RED 0221		
Leak Check 2% Vol (l/min)	0.68			Pitot Tube	RED 0221		
Swirl Test (<15°)	ok			Sample Pump	Zambelli Blue (RED 0100)		

Stack Reference ID		Spray Bake 1 Exhaust					
	Terex Compact Equipment						
	RUN 1			RUN 2			
	Filter Reference No	Q47/031007/17			Q47/031007/18		
Date	02-Nov-07			02-Nov-07			
Sample Period	10:05	to	10:37	10:39	to	11:11	
Velocity (Nm/s)	14.78						
Volume (Nm ³ /hr)	26739						
Average Stack Temp (°C)	20.00						
Permitted Temp Range (°C)	5.35	to			to	34.65	
Lowest Velocity Reading (m/s)	14.23						
Highest Velocity Reading (m/s)	15.08						
Ratio (less than 3:1)	1.06		:			1	
Oxygen %	20.9						
Carbon Dioxide %	0.00						
Moisture (%)	0.47						
Litres sampled	510			640			
Corrected volume sampled (m ³)	0.479			0.597			
Blank Filter Run (mg/m ³)	0.017						
Blank Filter Run (mg/m ³)	0.348						
Particulate Concentration on Filter (mg/m ³)	0.10			0.17			
Particulate Concentration in Wash (mg/m ³)	1.67			1.51			
Total Particulate Concentration (mg/m ³)	1.77			1.67			
Total Particulate Concentration corrected for Oxygen, dry gas (mg/m ³)	N/A			N/A			
Total Particulate Mass Emission (kg/hour)	0.047			0.045			

Client	Terex Compact Equipment					
Site Address	Prologis Park, Coventry					
Job Number	P-RED07-129/EB/R1/Rev0					
Date	02/11/2007	Port Depth (cm)				
Operator(s)	Vicki Gavin & Tony Berek					
				Isokinetic Sampling Method	ISO 9096	BS EN 13284 <input checked="" type="checkbox"/>
Stack Reference	Spray Bake 2 Exhaust	Isokinetic Sample Points (cms)		Isokinetic Flow (l/min)		
		1	11.68	Axis 1	Axis 2	
Number of Stacks	1	2	68.32	40.57	41.13	
Configuration (Round / Rectangular)	Round	3	N/A	43.94	43.14	
Dimensions (mtrs)	0.60	4	N/A	N/A	N/A	
Outlet Diameter (if applicable) (mtrs/sec)		5	N/A	N/A	N/A	
Number of Sample Ports	2	6	N/A	N/A	N/A	
Number of Samples per Axis / Port	2	7	N/A	N/A	N/A	
Nozzle Diameter (mm)	7.0	8	N/A	N/A	N/A	
Nozzle Area (m ²)	0.0003847	Average Isokinetic Flow Rate (ltrs/min)		Axis 1	Axis 2	
Stack Area (m ²)	0.503			42.29	42.15	
Pitot Coefficient	0.93	Pitot Calibration Date		22nd November 2007		
Position	Distance	Axis 1	Temperature	Axis 2	Temperature	
No.	(cms)	(pa)	(C)	(pa)	(C)	
1	11.68	214	20.0	220	20.0	
2	68.32	251	20.0	242	20.0	
3	N/A					
4	N/A					
5	N/A					
6	N/A					
7	N/A					
8	N/A					
				Atmos. Pressure (mbars)		
				1024		
				Static Pressure (pa)		
				-96.00		
				1 Axis 2 Axis		
				Average Velocity Flow (Nm/s)		
				18.29		
				Average Volume Flow (Nm ³ /s)		
				9.19		
				Volume (Nm ³ /s)		
				9.21 9.18		
				Velocity of flow (Nm/s)		
				18.32 18.26		
Averages				Reduced Exit Velocity (m/s)		
				N/A N/A		
Mean Flue Gas Temp (ln K) Tp = ((Mean T1 + Mean T2)/2)+273) =				293.00		
Permitted Range of gas temperature readings (C) = (0.95Tp-273) to (1.05Tp-273) =				5.35 to 34.65		
Highest Velocity Reading (m/s) =				19.0		
Lowest Velocity Reading (m/s) =				17.5		
Ratio Highest:Lowest (Max permitted = 3:1)				1.09 : 1		
On site Checklist				Instrument	Serial No:	
Manometer Leak Check	ok			Manometer	RED 0095	
Range of Gas Temps	ok			Temp Indicator	RED 0096	
Leak Check (l/min)	<0.2			Thermocouple	RED 0221	
Leak Check 2% Vol (l/min)	0.84			Pitot Tube	RED 0221	
Swirl Test (<15°)	ok			Sample Pump	Zambelli Blue (RED 0100)	

Stack Reference ID		Spray Bake 2 Exhaust					
	Terex Compact Equipment						
	RUN 1			RUN 2			
Filter Reference No	Q47/031007/15			Q47/031007/16			
Date	02-Nov-07			02-Nov-07			
Sample Period	8:55	to	9:27	9:30	to	10:02	
Velocity (Nm/s)	18.29						
Volume (Nm ³ /hr)	33101						
Average Stack Temp (°C)	20.00						
Permitted Temp Range (°C)	5.35	to			to	34.65	
Lowest Velocity Reading (m/s)	17.47						
Highest Velocity Reading (m/s)	19.04						
Ratio (less than 3:1)	1.09		:			1	
Oxygen %	20.9						
Carbon Dioxide %	0.00						
Moisture (%)	0.64						
Litres sampled	1024			1025			
Corrected volume sampled (m ³)	0.957			0.965			
Blank Filter Run (mg/m ³)	0.010						
Blank Filter Run (mg/m ³)	0.195						
Particulate Concentration on Filter (mg/m ³)	0.25			0.04			
Particulate Concentration in Wash (mg/m ³)	0.63			<0.5			
Total Particulate Concentration (mg/m ³)	0.88			0.04			
Total Particulate Concentration corrected for Oxygen, dry gas (mg/m ³)	N/A			N/A			
Total Particulate Mass Emission (kg/hour)	0.029			0.001			

APPENDIX B

VOC Charts

Primer Booth 1					
Date	Time	VOC mg/m ³	Date	Time	VOC mg/m ³
31-Oct-07	08:33:05	5.63	31-Oct-07	09:22:05	11.25
31-Oct-07	08:34:05	6.43	31-Oct-07	09:23:05	10.45
31-Oct-07	08:35:05	5.63	31-Oct-07	09:24:05	10.45
31-Oct-07	08:36:05	7.23	31-Oct-07	09:25:05	10.45
31-Oct-07	08:37:05	7.23	31-Oct-07	09:26:05	10.45
31-Oct-07	08:38:05	7.23	31-Oct-07	09:27:05	10.45
31-Oct-07	08:39:05	8.04	31-Oct-07	09:28:05	10.45
31-Oct-07	08:40:05	7.23	31-Oct-07	09:29:05	11.25
31-Oct-07	08:41:05	7.23	31-Oct-07	09:30:05	10.45
31-Oct-07	08:42:05	7.23	31-Oct-07	09:31:05	10.45
31-Oct-07	08:43:05	7.23	31-Oct-07	09:32:05	12.86
31-Oct-07	08:44:05	7.23	31-Oct-07	09:33:05	12.05
31-Oct-07	08:45:05	7.23			
31-Oct-07	08:46:05	7.23			
31-Oct-07	08:47:05	7.23			
31-Oct-07	08:48:05	7.23			
31-Oct-07	08:49:05	7.23			
31-Oct-07	08:50:05	8.84			
31-Oct-07	08:51:05	7.23			
31-Oct-07	08:52:05	7.23			
31-Oct-07	08:53:05	8.04			
31-Oct-07	08:54:05	8.84			
31-Oct-07	08:55:05	8.84			
31-Oct-07	08:56:05	8.84			
31-Oct-07	08:57:05	8.84			
31-Oct-07	08:58:05	8.84			
31-Oct-07	08:59:05	8.84			
31-Oct-07	09:00:05	7.23			
31-Oct-07	09:01:05	8.84			
31-Oct-07	09:02:05	8.84			
31-Oct-07	09:03:05	8.84			
31-Oct-07	09:04:05	8.84			
31-Oct-07	09:05:05	10.45			
31-Oct-07	09:06:05	10.45			
31-Oct-07	09:07:05	8.84			
31-Oct-07	09:08:05	8.84			
31-Oct-07	09:09:05	8.84			
31-Oct-07	09:10:05	10.45			
31-Oct-07	09:11:05	11.25			
31-Oct-07	09:12:05	10.45			
31-Oct-07	09:13:05	11.25			
31-Oct-07	09:14:05	10.45			
31-Oct-07	09:15:05	11.25			
31-Oct-07	09:16:05	10.45			
31-Oct-07	09:17:05	10.45			
31-Oct-07	09:18:05	11.25			
31-Oct-07	09:19:05	10.45			
31-Oct-07	09:20:05	10.45			
31-Oct-07	09:21:05	10.45			
			Average		9.09

Primer Booth 2					
Date	Time	VOC mg/m ³	Date	Time	VOC mg/m ³
30-Oct-07	11:32:01	21.70	30-Oct-07	12:21:01	24.91
30-Oct-07	11:33:01	5.63	30-Oct-07	12:22:01	21.70
30-Oct-07	11:34:01	5.63			
30-Oct-07	11:35:01	7.23			
30-Oct-07	11:36:01	7.23			
30-Oct-07	11:37:01	10.45			
30-Oct-07	11:38:01	10.45			
30-Oct-07	11:39:01	12.05			
30-Oct-07	11:40:01	13.66			
30-Oct-07	11:41:01	15.27			
30-Oct-07	11:42:01	15.27			
30-Oct-07	11:43:01	13.66			
30-Oct-07	11:44:01	13.66			
30-Oct-07	11:45:01	16.88			
30-Oct-07	11:46:01	16.88			
30-Oct-07	11:47:01	20.09			
30-Oct-07	11:48:01	20.09			
30-Oct-07	11:49:01	20.09			
30-Oct-07	11:50:01	16.88			
30-Oct-07	11:51:01	16.88			
30-Oct-07	11:52:01	16.88			
30-Oct-07	11:53:01	20.09			
30-Oct-07	11:54:01	20.09			
30-Oct-07	11:55:01	21.70			
30-Oct-07	11:56:01	21.70			
30-Oct-07	11:57:01	20.09			
30-Oct-07	11:58:01	21.70			
30-Oct-07	11:59:01	23.30			
30-Oct-07	12:00:01	24.91			
30-Oct-07	12:01:01	26.52			
30-Oct-07	12:02:01	24.91			
30-Oct-07	12:03:01	23.30			
30-Oct-07	12:04:01	21.70			
30-Oct-07	12:05:01	21.70			
30-Oct-07	12:06:01	21.70			
30-Oct-07	12:07:01	20.09			
30-Oct-07	12:08:01	21.70			
30-Oct-07	12:09:01	21.70			
30-Oct-07	12:10:01	20.09			
30-Oct-07	12:11:01	21.70			
30-Oct-07	12:12:01	20.09			
30-Oct-07	12:13:01	20.09			
30-Oct-07	12:14:01	20.09			
30-Oct-07	12:15:01	21.70			
30-Oct-07	12:16:01	21.70			
30-Oct-07	12:17:01	23.30			
30-Oct-07	12:18:01	21.70			
30-Oct-07	12:19:01	20.09			
30-Oct-07	12:20:01	28.13			
			Average		18.65

TopCoat Spray Booth 1					
Date	Time	VOC mg/m ³	Date	Time	VOC mg/m ³
31-Oct-07	09:52:11	8.84	31-Oct-07	10:41:11	10.45
31-Oct-07	09:53:11	8.84	31-Oct-07	10:42:11	10.45
31-Oct-07	09:54:11	8.84	31-Oct-07	10:43:11	10.45
31-Oct-07	09:55:11	8.84	31-Oct-07	10:44:11	10.45
31-Oct-07	09:56:11	8.84	31-Oct-07	10:45:11	10.45
31-Oct-07	09:57:11	8.84	31-Oct-07	10:46:11	10.45
31-Oct-07	09:58:11	10.45	31-Oct-07	10:47:11	12.05
31-Oct-07	09:59:11	10.45	31-Oct-07	10:48:11	10.45
31-Oct-07	10:00:11	10.45	31-Oct-07	10:49:11	9.64
31-Oct-07	10:01:11	10.45	31-Oct-07	10:50:11	10.45
31-Oct-07	10:02:11	10.45	31-Oct-07	10:51:11	10.45
31-Oct-07	10:03:11	10.45	31-Oct-07	10:52:11	10.45
31-Oct-07	10:04:11	10.45			
31-Oct-07	10:05:11	10.45			
31-Oct-07	10:06:11	10.45			
31-Oct-07	10:07:11	10.45			
31-Oct-07	10:08:11	10.45			
31-Oct-07	10:09:11	10.45			
31-Oct-07	10:10:11	10.45			
31-Oct-07	10:11:11	10.45			
31-Oct-07	10:12:11	10.45			
31-Oct-07	10:13:11	10.45			
31-Oct-07	10:14:11	10.45			
31-Oct-07	10:15:11	10.45			
31-Oct-07	10:16:11	10.45			
31-Oct-07	10:17:11	10.45			
31-Oct-07	10:18:11	10.45			
31-Oct-07	10:19:11	10.45			
31-Oct-07	10:20:11	10.45			
31-Oct-07	10:21:11	10.45			
31-Oct-07	10:22:11	10.45			
31-Oct-07	10:23:11	10.45			
31-Oct-07	10:24:11	10.45			
31-Oct-07	10:25:11	10.45			
31-Oct-07	10:26:11	10.45			
31-Oct-07	10:27:11	10.45			
31-Oct-07	10:28:11	10.45			
31-Oct-07	10:29:11	10.45			
31-Oct-07	10:30:11	10.45			
31-Oct-07	10:31:11	10.45			
31-Oct-07	10:32:11	10.45			
31-Oct-07	10:33:11	10.45			
31-Oct-07	10:34:11	6.43			
31-Oct-07	10:35:11	10.45			
31-Oct-07	10:36:11	10.45			
31-Oct-07	10:37:11	12.05			
31-Oct-07	10:38:11	12.05			
31-Oct-07	10:39:11	11.25			
31-Oct-07	10:40:11	12.05			
			Average		10.37

TopCoat Spray Booth 2					
Date	Time	VOC mg/m ³	Date	Time	VOC mg/m ³
31-Oct-07	11:09:29	8.84	31-Oct-07	11:58:29	21.70
31-Oct-07	11:10:29	10.45	31-Oct-07	11:59:29	20.09
31-Oct-07	11:11:29	10.45	31-Oct-07	12:00:29	20.09
31-Oct-07	11:12:29	12.05	31-Oct-07	12:01:29	21.70
31-Oct-07	11:13:29	12.05	31-Oct-07	12:02:29	23.30
31-Oct-07	11:14:29	10.45	31-Oct-07	12:03:29	26.52
31-Oct-07	11:15:29	10.45	31-Oct-07	12:04:29	26.52
31-Oct-07	11:16:29	12.05	31-Oct-07	12:05:29	24.91
31-Oct-07	11:17:29	15.27	31-Oct-07	12:06:29	23.30
31-Oct-07	11:18:29	16.88	31-Oct-07	12:07:29	26.52
31-Oct-07	11:19:29	18.48	31-Oct-07	12:08:29	29.73
31-Oct-07	11:20:29	20.09	31-Oct-07	12:09:29	29.73
31-Oct-07	11:21:29	20.09			
31-Oct-07	11:22:29	18.48			
31-Oct-07	11:23:29	18.48			
31-Oct-07	11:24:29	16.88			
31-Oct-07	11:25:29	16.88			
31-Oct-07	11:26:29	18.48			
31-Oct-07	11:27:29	20.09			
31-Oct-07	11:28:29	21.70			
31-Oct-07	11:29:29	23.30			
31-Oct-07	11:30:29	26.52			
31-Oct-07	11:31:29	24.91			
31-Oct-07	11:32:29	23.30			
31-Oct-07	11:33:29	23.30			
31-Oct-07	11:34:29	21.70			
31-Oct-07	11:35:29	21.70			
31-Oct-07	11:36:29	23.30			
31-Oct-07	11:37:29	23.30			
31-Oct-07	11:38:29	23.30			
31-Oct-07	11:39:29	23.30			
31-Oct-07	11:40:29	23.30			
31-Oct-07	11:41:29	23.30			
31-Oct-07	11:42:29	23.30			
31-Oct-07	11:43:29	23.30			
31-Oct-07	11:44:29	21.70			
31-Oct-07	11:45:29	20.09			
31-Oct-07	11:46:29	20.09			
31-Oct-07	11:47:29	20.09			
31-Oct-07	11:48:29	20.09			
31-Oct-07	11:49:29	18.48			
31-Oct-07	11:50:29	18.48			
31-Oct-07	11:51:29	18.48			
31-Oct-07	11:52:29	18.48			
31-Oct-07	11:53:29	16.88			
31-Oct-07	11:54:29	18.48			
31-Oct-07	11:55:29	18.48			
31-Oct-07	11:56:29	20.09			
31-Oct-07	11:57:29	21.70			
			Average		20.07

TopCoat Curing Oven					
Date	Time	VOC mg/m ³	Date	Time	VOC mg/m ³
29-Oct-07	13:27:41	4.02	29-Oct-07	14:16:41	8.84
29-Oct-07	13:28:41	5.63	29-Oct-07	14:17:41	8.84
29-Oct-07	13:29:41	5.63	29-Oct-07	14:18:41	8.84
29-Oct-07	13:30:41	7.23	29-Oct-07	14:19:41	7.23
29-Oct-07	13:31:41	7.23	29-Oct-07	14:20:41	7.23
29-Oct-07	13:32:41	7.23	29-Oct-07	14:21:41	7.23
29-Oct-07	13:33:41	5.63	29-Oct-07	14:22:41	8.84
29-Oct-07	13:34:41	7.23	29-Oct-07	14:23:41	10.45
29-Oct-07	13:35:41	8.84	29-Oct-07	14:24:41	10.45
29-Oct-07	13:36:41	8.84	29-Oct-07	14:25:41	10.45
29-Oct-07	13:37:41	10.45	29-Oct-07	14:26:41	8.84
29-Oct-07	13:38:41	13.66	29-Oct-07	14:27:41	7.23
29-Oct-07	13:39:41	13.66			
29-Oct-07	13:40:41	12.05			
29-Oct-07	13:41:41	8.84			
29-Oct-07	13:42:41	8.84			
29-Oct-07	13:43:41	10.45			
29-Oct-07	13:44:41	12.05			
29-Oct-07	13:45:41	15.27			
29-Oct-07	13:46:41	15.27			
29-Oct-07	13:47:41	13.66			
29-Oct-07	13:48:41	13.66			
29-Oct-07	13:49:41	10.45			
29-Oct-07	13:50:41	7.23			
29-Oct-07	13:51:41	8.84			
29-Oct-07	13:52:41	10.45			
29-Oct-07	13:53:41	12.05			
29-Oct-07	13:54:41	12.05			
29-Oct-07	13:55:41	12.05			
29-Oct-07	13:56:41	12.05			
29-Oct-07	13:57:41	12.05			
29-Oct-07	13:58:41	13.66			
29-Oct-07	13:59:41	13.66			
29-Oct-07	14:00:41	10.45			
29-Oct-07	14:01:41	7.23			
29-Oct-07	14:02:41	7.23			
29-Oct-07	14:03:41	10.45			
29-Oct-07	14:04:41	10.45			
29-Oct-07	14:05:41	9.64			
29-Oct-07	14:06:41	10.45			
29-Oct-07	14:07:41	10.45			
29-Oct-07	14:08:41	10.45			
29-Oct-07	14:09:41	10.45			
29-Oct-07	14:10:41	10.45			
29-Oct-07	14:11:41	7.23			
29-Oct-07	14:12:41	7.23			
29-Oct-07	14:13:41	8.84			
29-Oct-07	14:14:41	10.45			
29-Oct-07	14:15:41	10.45			
			Average		9.88

Paint Kitchen					
Date	Time	VOC mg/m ³	Date	Time	VOC mg/m ³
30-Oct-07	08:43:46	0.80	30-Oct-07	09:32:46	8.84
30-Oct-07	08:44:46	0.80	30-Oct-07	09:33:46	8.84
30-Oct-07	08:45:46	1.61	30-Oct-07	09:34:46	8.84
30-Oct-07	08:46:46	0.80	30-Oct-07	09:35:46	8.84
30-Oct-07	08:47:46	1.61	30-Oct-07	09:36:46	8.84
30-Oct-07	08:48:46	2.41	30-Oct-07	09:37:46	8.84
30-Oct-07	08:49:46	2.41	30-Oct-07	09:38:46	8.84
30-Oct-07	08:50:46	2.41	30-Oct-07	09:39:46	8.84
30-Oct-07	08:51:46	2.41	30-Oct-07	09:40:46	8.84
30-Oct-07	08:52:46	2.41	30-Oct-07	09:41:46	8.84
30-Oct-07	08:53:46	2.41	30-Oct-07	09:42:46	8.84
30-Oct-07	08:54:46	2.41	30-Oct-07	09:43:46	7.23
30-Oct-07	08:55:46	2.41			
30-Oct-07	08:56:46	4.02			
30-Oct-07	08:57:46	4.02			
30-Oct-07	08:58:46	4.02			
30-Oct-07	08:59:46	4.02			
30-Oct-07	09:00:46	4.82			
30-Oct-07	09:01:46	4.02			
30-Oct-07	09:02:46	4.02			
30-Oct-07	09:03:46	4.02			
30-Oct-07	09:04:46	4.02			
30-Oct-07	09:05:46	5.63			
30-Oct-07	09:06:46	4.02			
30-Oct-07	09:07:46	4.02			
30-Oct-07	09:08:46	5.63			
30-Oct-07	09:09:46	5.63			
30-Oct-07	09:10:46	5.63			
30-Oct-07	09:11:46	5.63			
30-Oct-07	09:12:46	5.63			
30-Oct-07	09:13:46	5.63			
30-Oct-07	09:14:46	4.02			
30-Oct-07	09:15:46	4.02			
30-Oct-07	09:16:46	5.63			
30-Oct-07	09:17:46	5.63			
30-Oct-07	09:18:46	5.63			
30-Oct-07	09:19:46	5.63			
30-Oct-07	09:20:46	7.23			
30-Oct-07	09:21:46	7.23			
30-Oct-07	09:22:46	7.23			
30-Oct-07	09:23:46	7.23			
30-Oct-07	09:24:46	7.23			
30-Oct-07	09:25:46	7.23			
30-Oct-07	09:26:46	7.23			
30-Oct-07	09:27:46	7.23			
30-Oct-07	09:28:46	7.23			
30-Oct-07	09:29:46	7.23			
30-Oct-07	09:30:46	7.23			
30-Oct-07	09:31:46	7.23			
			Average		5.47

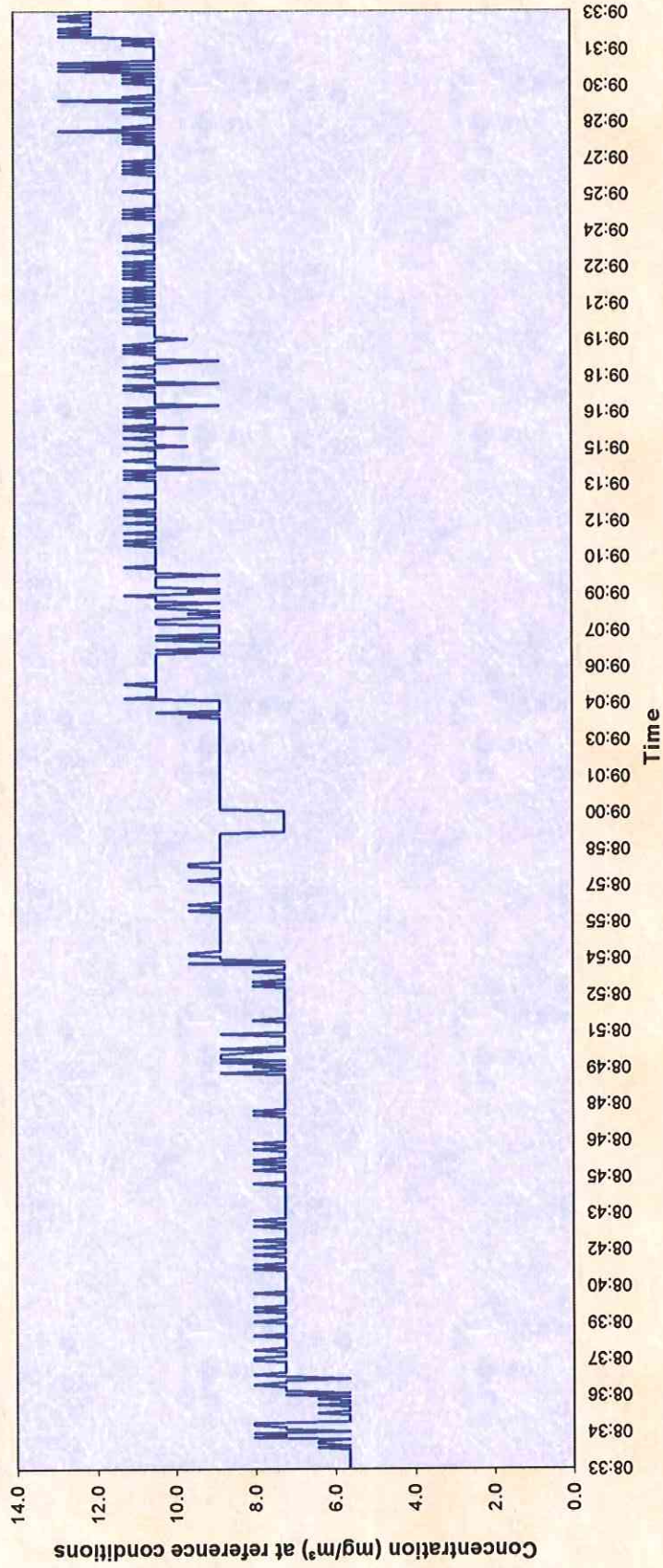
Spray Bake Booth 1					
Date	Time	VOC mg/m ³	Date	Time	VOC mg/m ³
02-Nov-07	10:10:38	21.70	02-Nov-07	10:59:38	33.75
02-Nov-07	10:11:38	21.70	02-Nov-07	11:00:38	43.39
02-Nov-07	10:12:38	21.70	02-Nov-07	11:01:38	35.36
02-Nov-07	10:13:38	21.70	02-Nov-07	11:02:38	32.95
02-Nov-07	10:14:38	17.68	02-Nov-07	11:03:38	32.95
02-Nov-07	10:15:38	20.09	02-Nov-07	11:04:38	32.95
02-Nov-07	10:16:38	21.70	02-Nov-07	11:05:38	31.34
02-Nov-07	10:17:38	24.91	02-Nov-07	11:06:38	36.16
02-Nov-07	10:18:38	26.52	02-Nov-07	11:07:38	31.34
02-Nov-07	10:19:38	26.52	02-Nov-07	11:08:38	39.38
02-Nov-07	10:20:38	29.73	02-Nov-07	11:09:38	39.38
02-Nov-07	10:21:38	28.13	02-Nov-07	11:10:38	34.55
02-Nov-07	10:22:38	27.32			
02-Nov-07	10:23:38	26.52			
02-Nov-07	10:24:38	29.73			
02-Nov-07	10:25:38	29.73			
02-Nov-07	10:26:38	27.32			
02-Nov-07	10:27:38	31.34			
02-Nov-07	10:28:38	31.34			
02-Nov-07	10:29:38	32.95			
02-Nov-07	10:30:38	36.96			
02-Nov-07	10:31:38	39.38			
02-Nov-07	10:32:38	38.57			
02-Nov-07	10:33:38	39.38			
02-Nov-07	10:34:38	39.38			
02-Nov-07	10:35:38	48.21			
02-Nov-07	10:36:38	53.84			
02-Nov-07	10:37:38	55.45			
02-Nov-07	10:38:38	53.84			
02-Nov-07	10:39:38	40.98			
02-Nov-07	10:40:38	45.80			
02-Nov-07	10:41:38	49.02			
02-Nov-07	10:42:38	53.84			
02-Nov-07	10:43:38	55.45			
02-Nov-07	10:44:38	55.45			
02-Nov-07	10:45:38	37.77			
02-Nov-07	10:46:38	36.16			
02-Nov-07	10:47:38	37.77			
02-Nov-07	10:48:38	31.34			
02-Nov-07	10:49:38	49.82			
02-Nov-07	10:50:38	47.41			
02-Nov-07	10:51:38	47.41			
02-Nov-07	10:52:38	45.00			
02-Nov-07	10:53:38	37.77			
02-Nov-07	10:54:38	38.57			
02-Nov-07	10:55:38	40.98			
02-Nov-07	10:56:38	39.38			
02-Nov-07	10:57:38	37.77			
02-Nov-07	10:58:38	39.38			
			Average		36.49

Spray Bake Booth 2					
Date	Time	VOC mg/m ³	Date	Time	VOC mg/m ³
02-Nov-07	08:55:00	36.16	02-Nov-07	09:44:00	24.11
02-Nov-07	08:56:00	33.75	02-Nov-07	09:45:00	24.11
02-Nov-07	08:57:00	39.38	02-Nov-07	09:46:00	24.11
02-Nov-07	08:58:00	35.36	02-Nov-07	09:47:00	24.91
02-Nov-07	08:59:00	37.77	02-Nov-07	09:48:00	20.89
02-Nov-07	09:00:00	42.59	02-Nov-07	09:49:00	21.70
02-Nov-07	09:01:00	43.39	02-Nov-07	09:50:00	20.89
02-Nov-07	09:02:00	49.82	02-Nov-07	09:51:00	20.89
02-Nov-07	09:03:00	49.82	02-Nov-07	09:52:00	20.89
02-Nov-07	09:04:00	52.23	02-Nov-07	09:53:00	22.50
02-Nov-07	09:05:00	42.59	02-Nov-07	09:54:00	22.50
02-Nov-07	09:06:00	40.98	02-Nov-07	09:55:00	6.43
02-Nov-07	09:07:00	35.36			
02-Nov-07	09:08:00	29.73			
02-Nov-07	09:09:00	27.32			
02-Nov-07	09:10:00	24.11			
02-Nov-07	09:11:00	24.11			
02-Nov-07	09:12:00	24.91			
02-Nov-07	09:13:00	22.50			
02-Nov-07	09:14:00	20.89			
02-Nov-07	09:15:00	23.30			
02-Nov-07	09:16:00	21.70			
02-Nov-07	09:17:00	21.70			
02-Nov-07	09:18:00	21.70			
02-Nov-07	09:19:00	21.70			
02-Nov-07	09:20:00	20.09			
02-Nov-07	09:21:00	19.29			
02-Nov-07	09:22:00	17.68			
02-Nov-07	09:23:00	16.88			
02-Nov-07	09:24:00	19.29			
02-Nov-07	09:25:00	17.68			
02-Nov-07	09:26:00	18.48			
02-Nov-07	09:27:00	17.68			
02-Nov-07	09:28:00	17.68			
02-Nov-07	09:29:00	14.46			
02-Nov-07	09:30:00	14.46			
02-Nov-07	09:31:00	17.68			
02-Nov-07	09:32:00	16.88			
02-Nov-07	09:33:00	16.88			
02-Nov-07	09:34:00	14.46			
02-Nov-07	09:35:00	14.46			
02-Nov-07	09:36:00	12.86			
02-Nov-07	09:37:00	12.86			
02-Nov-07	09:38:00	13.66			
02-Nov-07	09:39:00	12.86			
02-Nov-07	09:40:00	12.86			
02-Nov-07	09:41:00	12.86			
02-Nov-07	09:42:00	13.66			
02-Nov-07	09:43:00	20.89			
			Average		24.16

APPENDIX C

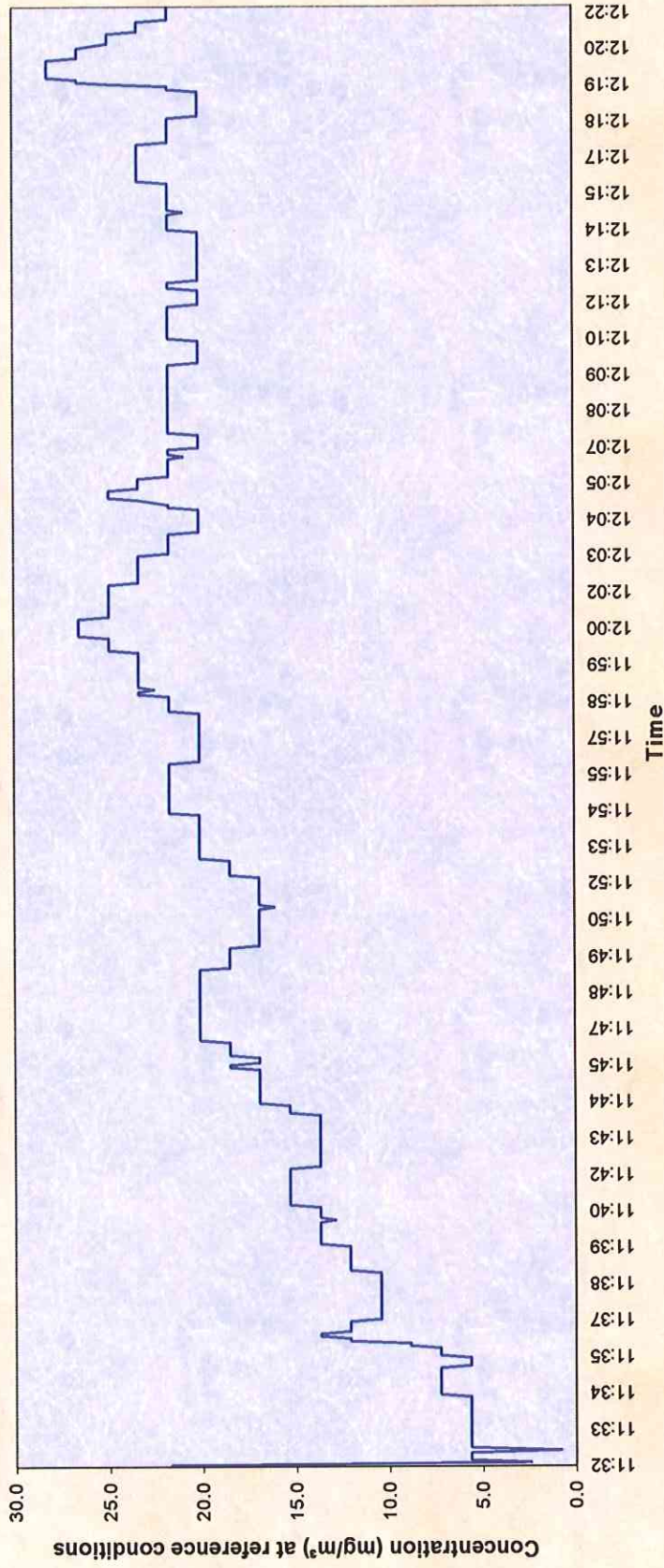
VOC Charts

Primer Booth 1 - VOC Monitoring (31/10/07)



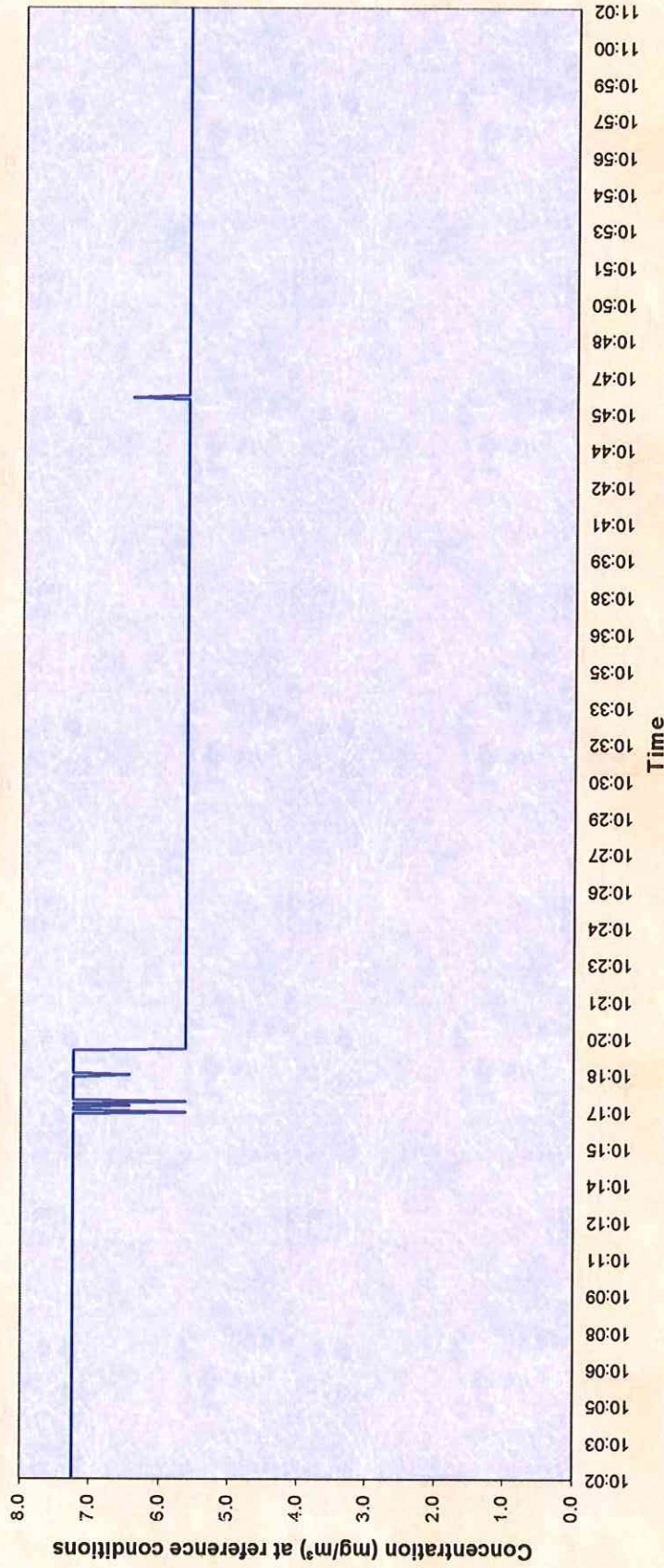
Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Max	Mean	Min
8:33	to	4.78	6.00	7.68	5.63
9:03	to	6.53	8.00	10.50	8.84

Primer Booth 2 - VOC Monitoring (30/10/07)



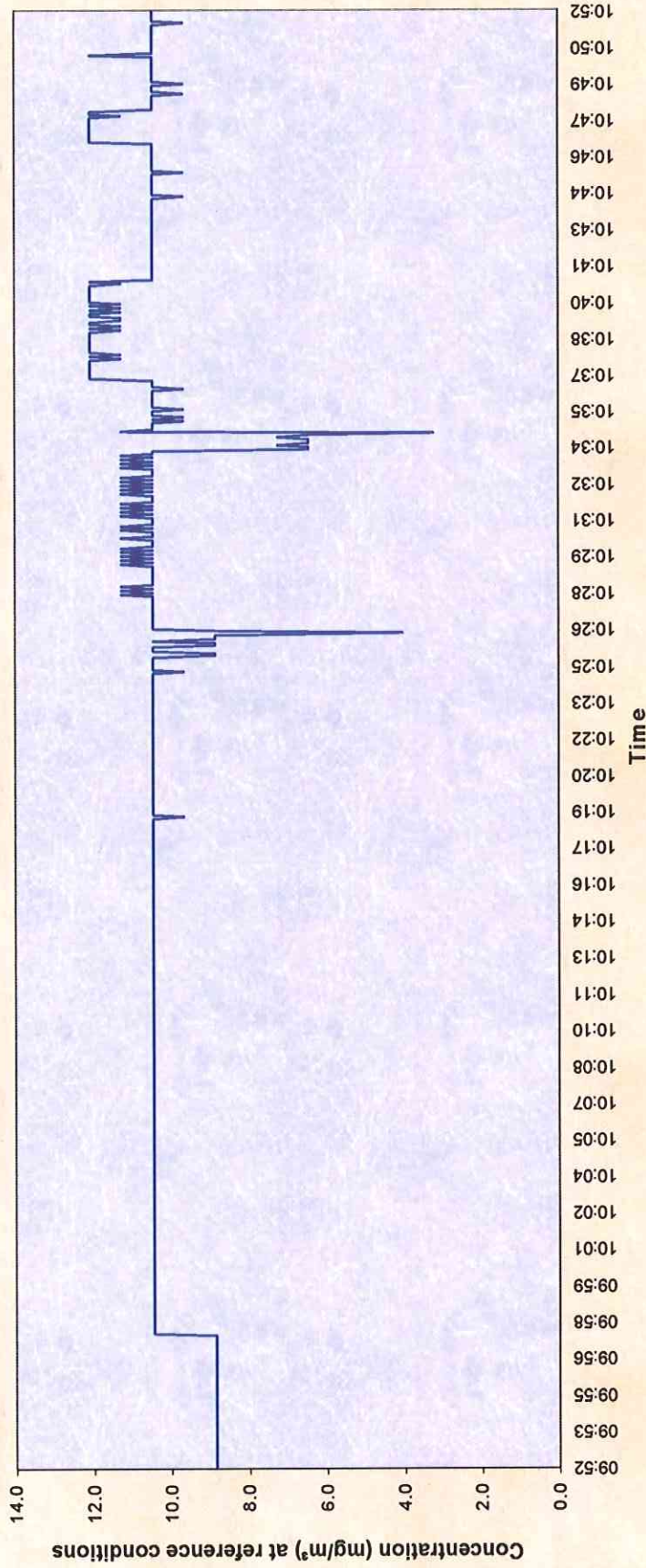
Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Max	Mean	Min
11:32	to 12:02	10.18	16.50	16.37	0.80
12:02	to 12:32	13.73	17.50	22.07	20.09

Primer Flash-off - VOC Monitoring (30/10/07)



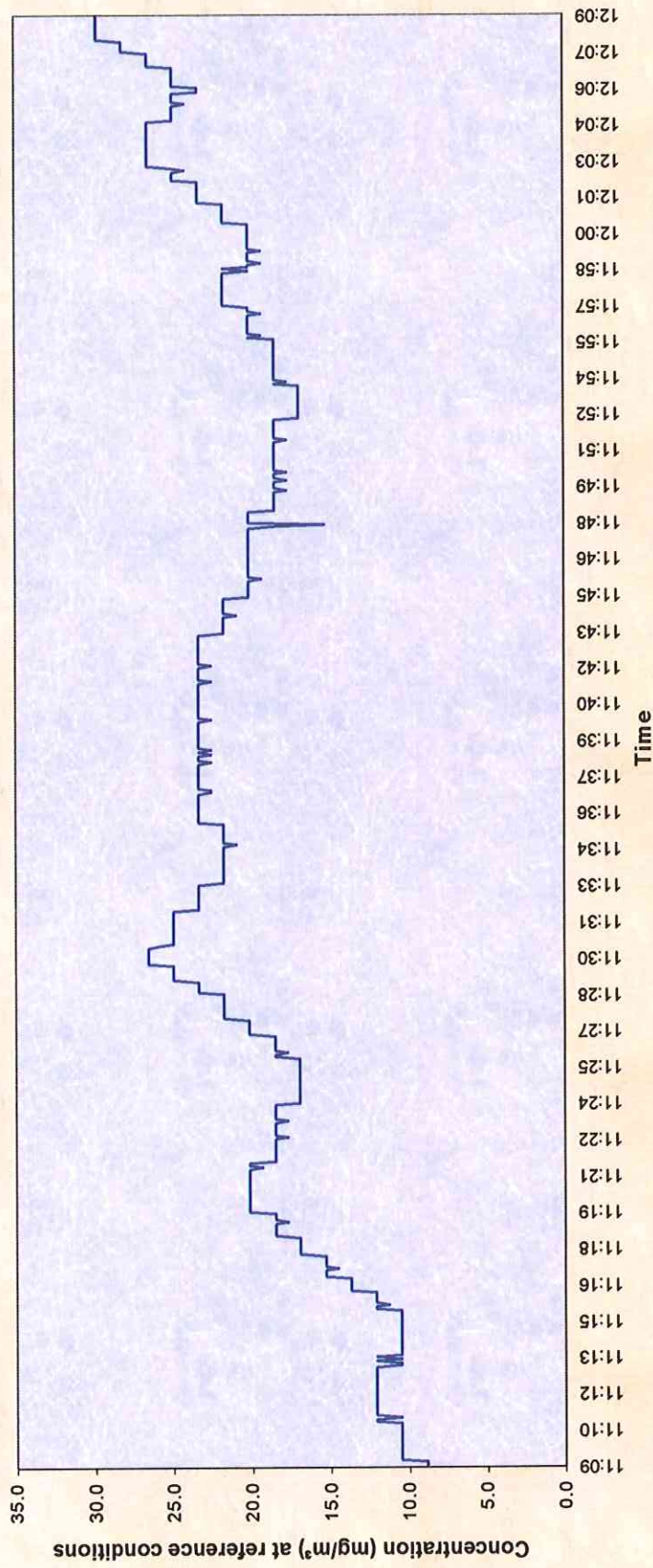
Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Min	Mean	Min
10:02	to 10:32	4.07	3.50	6.55	5.63
10:32	to 11:02	3.50	3.50	5.63	5.63
				7.23	6.43

Top Coat Spray Booth 1 - VOC Monitoring (31/10/07)



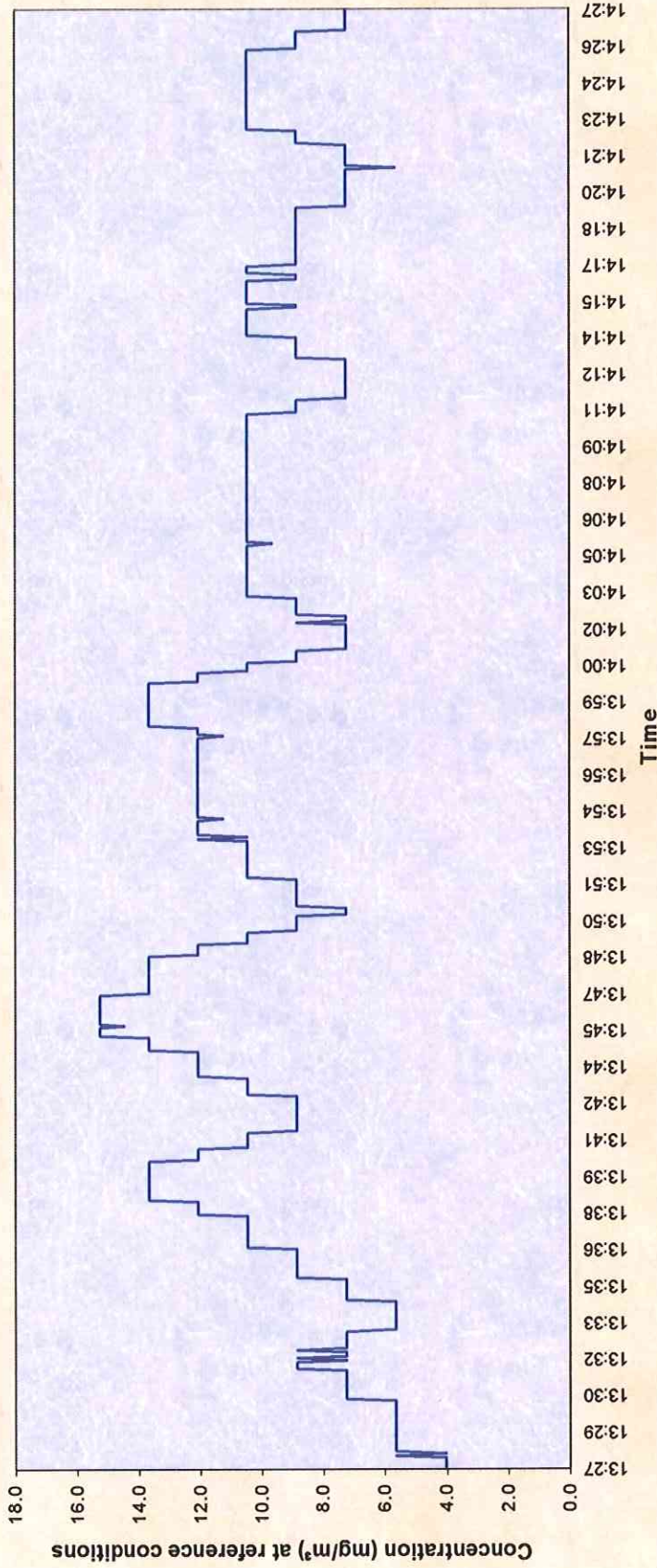
Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Max	Min	Max	Min
9:52	to	6.32	5.50	10.45	8.84
10:22	to	7.50	2.00	12.05	3.21

Top Coat Spray Booth 2 - VOC Monitoring (31/10/07)



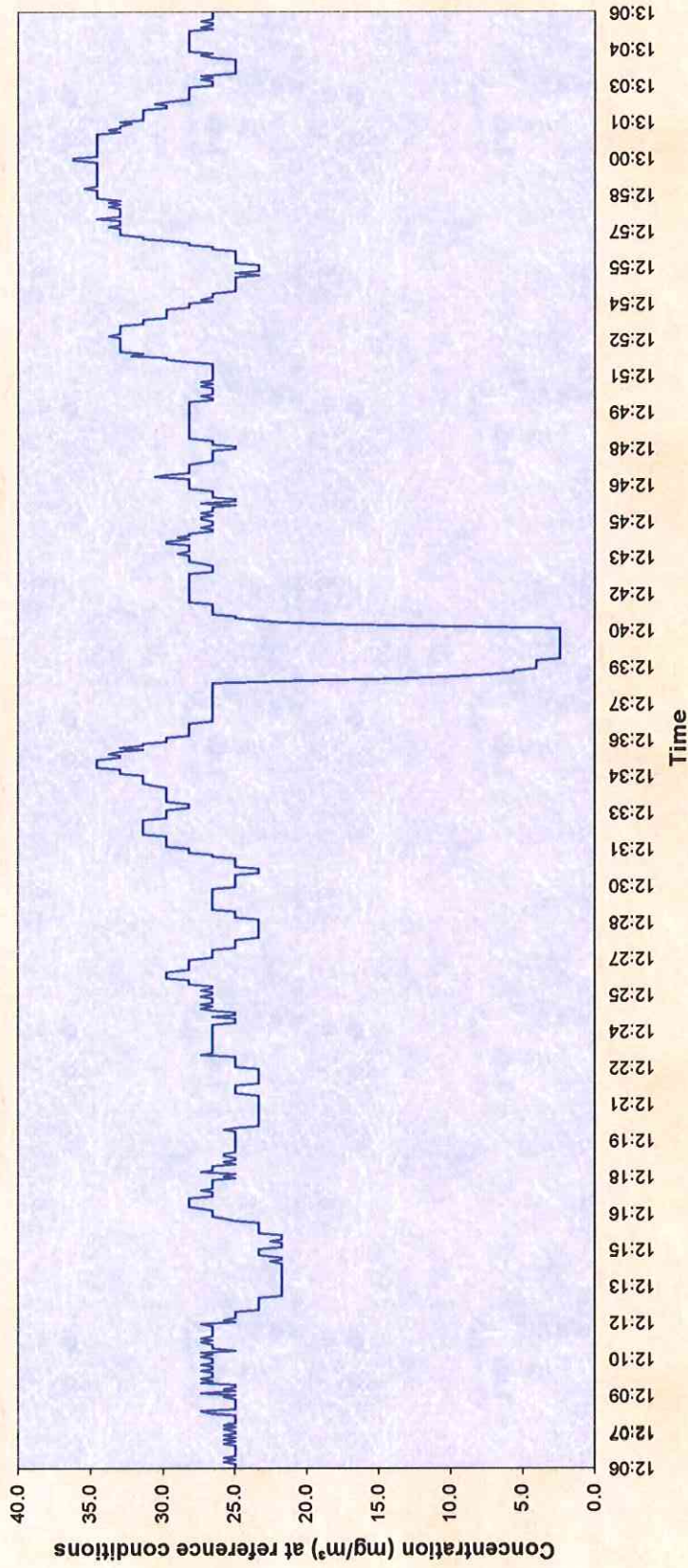
Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Max	Mean	Max
11:09	to	11.42	16.50	18.35	26.52
11:39	to	13.57	18.50	21.81	29.73
11:09	to				
12:09	to				

Top Coat Curing Oven - VOC Monitoring (29/10/07)



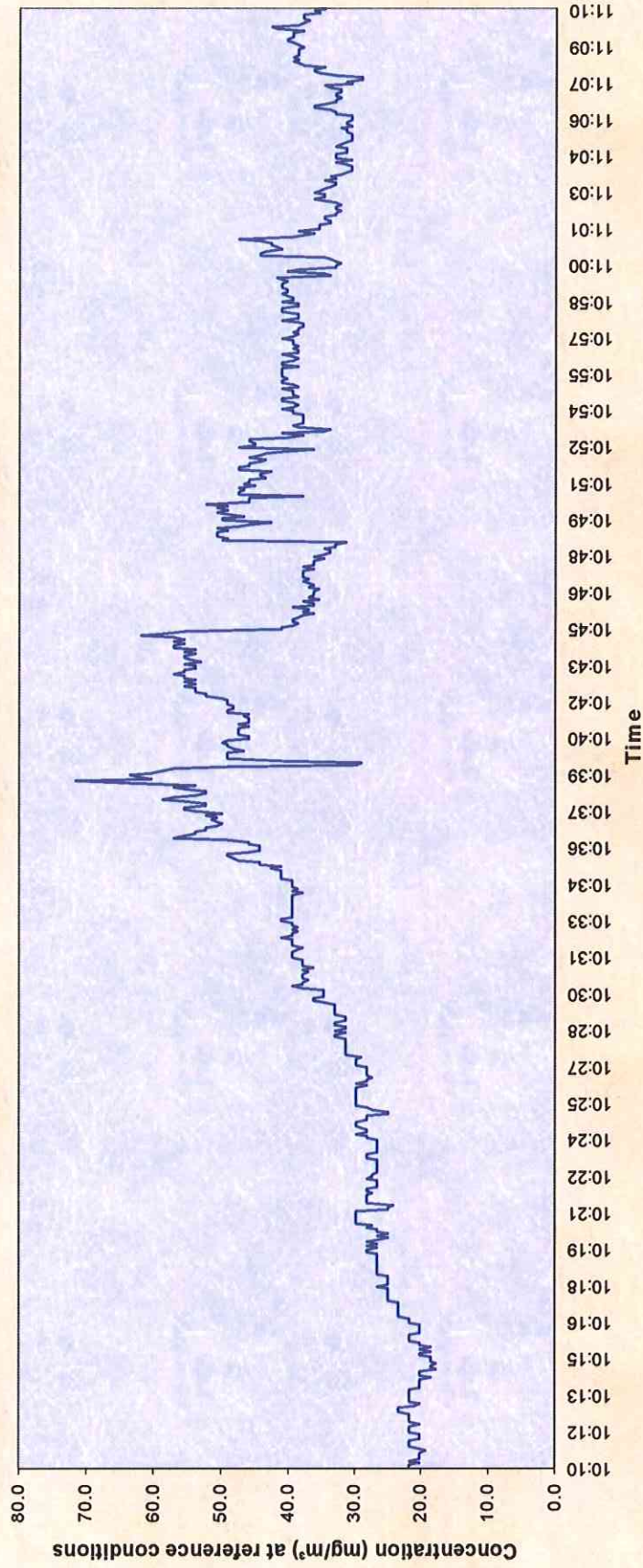
Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Max	Mean	Min
13:27	to	6.32	9.50	10.16	15.27
13:57	to	5.98	8.50	9.61	13.66
					4.02
					5.63

Top Coat Flash-Off - VOC Monitoring (29/10/07)



Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Max	Mean	Min
12:06	to	16.22	21.50	26.07	21.70
12:36	to	16.69	22.50	26.82	2.41

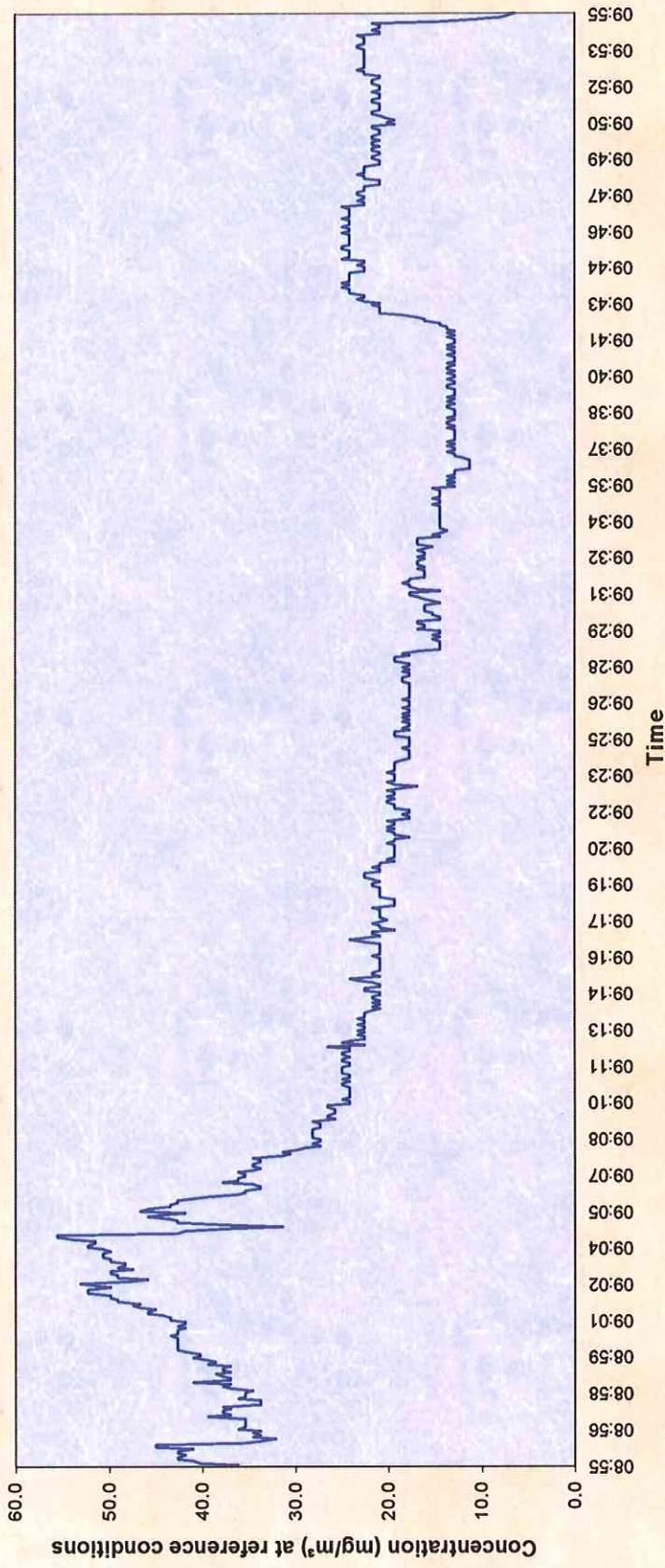
Spray Bake Booth 1 - VOC Monitoring (02/11/07)



Average Run Time		Volatiles Organic Compound (ppm)		Volatiles Organic Compound (mg/m³)	
		Mean	Max	Mean	Min
10:10	to 10:40	20.29	44.50	32.61	17.68
10:40	to 11:10	25.13	38.50	40.39	28.93



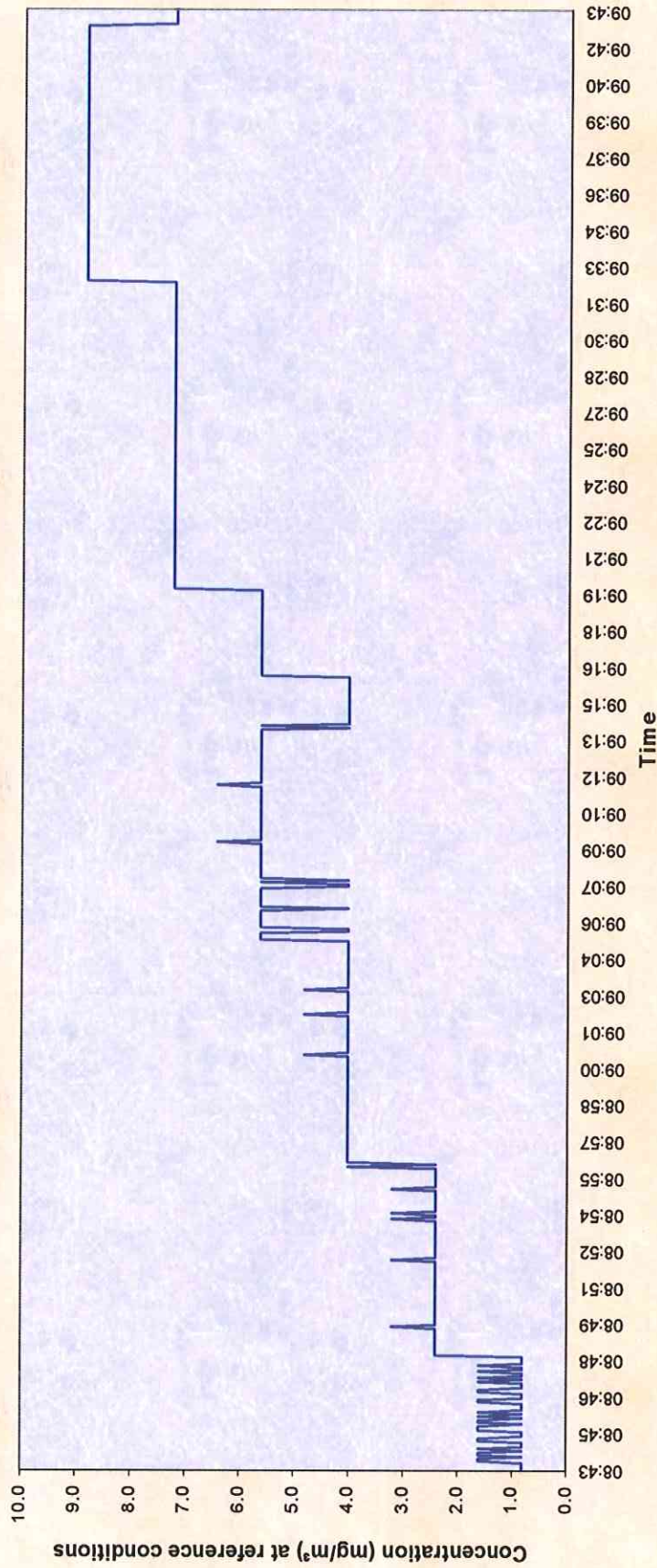
Spray Bake Booth 2 - VOC Monitoring (02/11/07)



Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Max	Mean	Max
8:55	to	18.85	34.50	30.30	55.45
9:25	to	11.20	15.50	18.01	24.91



Paint Kitchen - VOC Monitoring (30/10/07)



Average Run Time		Volatile Organic Compound (ppm)		Volatile Organic Compound (mg/m³)	
		Mean	Max	Mean	Min
8:43	to 9:13	2.23	4.00	3.59	0.80
9:13	to 9:43	4.58	5.50	7.36	4.02

APPENDIX D

Isocyanate Results

Client	Terex Compact Equipment
Site Address	Prologis Park, Coventry
Job Number	P-RED07-129/EB/R1/Rev0
Date	30th October 2007
Operator(s)	Elena Berek, Vicki Gavin & Tony Berek

Pump Type	Pump No.	Sample ID	Location / Process / Operator	Pump Flow (mls/min)			Sample Duration (mins)			Total Volume (l)	Gas Temp (C)	Atmos Pressure (mbars)	Mass of Analyte (ug)	Concentration (mg/Nm3)
				Initial	Final	Average	Start	Finish	Total					
Yellow	44	07/129/01	Topcoat Spray Booth 1	1000.0	1000.0	1000.0	08:45			120	20.0	1018	2.500	0.0208
				Initial	Final	Average	Start	Finish	Total					
Yellow	46	07/129/02	Topcoat Spray Booth 2	1000.0	1000.0	1000.0	08:45			120	20.0	1018	1.300	0.011
				Initial	Final	Average	Start	Finish	Total					
Yellow	47	07/129/03	Topcoat Flash-off	1000.0	1000.0	1000.0	08:45			120	20.0	1018	<0.20	<0.002
				Initial	Final	Average	Start	Finish	Total					
Yellow	49	07/129/04	Topcoat Curing Oven	1000.0	1000.0	1000.0	08:46			120	26.0	1018	0.370	0.003
				Initial	Final	Average	Start	Finish	Total					
Yellow	44	07/129/05	Spray Bake Booth 1	1000.0	1000.0	1000.0	11:05			120	24.0	1018	<0.20	<0.002
				Initial	Final	Average	Start	Finish	Total					
Yellow	46	07/129/06	Spray Bake Booth 2	1000.0	1000.0	1000.0	11:05			120	23.0	1018	2.000	0.017
				Initial	Final	Average	Start	Finish	Total					

